GeoEngineers

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Memorandum

To:	State of Washington, Department of Ecology
From:	GeoEngineers, Inc.
Date:	November 25, 2024
File:	0504-217-00
Subject:	Data Review Memorandum Little Mountain Fire Station No. 33 Bailer Hill Road and Straits View Drive Friday Harbor, Washington

GeoEngineers, Inc. (GeoEngineers) has prepared this memorandum for the State of Washington, Department of Ecology (Ecology) to summarize our review of available information for the Little Mountain Fire Station No. 33 (subject property) and surrounding properties located outside of Friday Harbor on San Juan Island, Washington (Figure 1). The subject property is owned by Hannah Heights Homeowners Association (HHOA) and is being evaluated as a potential source of per- and polyfluoroalkyl substances (PFAS) based on the detection of PFAS in a water sample collected from a supply well located on the subject property. The subject property is listed in Ecology's database as the Bailer Hill PFAS Site (Site; Facility Site ID: 100000405/Cleanup Site ID: 16911). The extent of PFAS impacts at the Site will be further evaluated during field investigations completed for Ecology in 2024. During our evaluation of the subject property, we reviewed pertinent information and files related to properties within a 1-mile radius. The work was completed in accordance with our proposal dated May 9, 2024.

INTRODUCTION AND BACKGROUND

This memorandum summarizes the results of our review of available information for the subject property and nearby properties. The subject property is located at 3189 Bailer Hill Road, San Juan Island, Washington (Figure 1), and is approximately 0.97 acres in size and identified by the San Juan County Assessor's Office as parcel 353050029000. The subject property is currently owned by HHOA and is improved by the approximately 2,750 square foot Little Mountain Fire Station No. 33, part of the San Juan Island Fire and Rescue. One Group A[1] water system supply well (Well No. 2) is located on the subject property approximately 100 feet south of the fire station (Figure 2). In April 2023, HHOA collected a water sample from Well No. 2 to assess the water supply for the presence of PFAS, as required by the Washington State Department of Health (DOH) for Group A water systems. The sample was collected as a drinking water sample, not from within the well. PFAS were detected in the analyzed water sample at concentrations greater than the Washington State Action Levels (SALs) for PFAS in drinking water. A second HHOA water system well, Well No. 3, located approximately 0.3 miles east of the subject property (see Figure 3), was also included in the initial water system sampling. PFAS was not detected in the water sample collected from Well No. 3 at concentrations greater than laboratory reporting limits.

Additional groundwater samples were collected from Well No. 2 in May 2023 to verify the results of the initial sampling and evaluate concentrations in groundwater at different depths. One groundwater sample was collected from near the bottom of the well, at a depth of approximately 183 feet below ground surface (bgs), and one groundwater sample was collected from a shallower point where groundwater was observed

[1] A Group A supply well is regulated by the Washington State Department of Health (DOH) and serves 15 or more residential connections, serves 25 or more people per day for 60 or more days per year, serves 1,000 people for 2 days or more per year.

seeping into the well at approximately 38 feet bgs. The Well No. 2 casing is installed to approximately 18.5 feet bgs and is an open borehole in bedrock thereafter. PFAS concentrations in the shallower groundwater were greater than those in the overall drinking water samples.

Drinking water from other sources have been provided to HHOA homeowners since PFAS were detected in the water supply. Ecology and the DOH began investigating the water supply at the subject property after the detection of PFAS was reported to DOH. The analytical results were further evaluated by the HHOA, San Juan County Health & Community Services (HCS), and the DOH; the Little Mountain Fire Station No. 33 was subsequently identified as a potential PFAS source by Ecology and the DOH based on the documented storage and potential use of PFAS-containing aqueous film-forming foam (AFFF) at the subject property.

Residents of the area surrounding the subject property receive drinking water from different sources depending on the location of the property. The two Group A water systems providing drinking water to area residents are the HHOA water system and the Hannah Heights No. 2 water system (see Figure 3). The two Group B water systems providing drinking water to area residents are the Orca Point Water System and Sun Slope Water System. Additionally, private wells provide water for some properties that are not connected to a Group A or B water system. The approximate boundaries for the areas services by the water systems are mapped by the DOH's Source Water Assessment Program (SWAP) and are shown in Figure 3.

This memorandum is intended to provide information related to properties surrounding the subject property that may have used, stored, or been affected by PFAS. We understand that the findings presented in this memorandum may be used to assess potential sources of PFAS impacts and guide future subsurface investigations and sampling.

LOCATION AND SETTING

General information, property use(s), and the environmental setting of the subject property area are summarized in Table 1 below.

TABLE 1. SUBJECT PROPERTY INFORMATION

TOPOGRAPHIC MAP	USGS, 7.5-MINUTE FALSE BAY, WASHINGTON TOPOGRAPHIC QUADRANGLE MAP DATED 2023
Quarter, Section, Township and Range	SE quadrant of Section 30, Township 35N, Range 03W, Willamette Meridian
Address	3189 Bailer Hill Road, Friday Harbor, Washington
General Location	The subject property is located in the southwestern portion of San Juan Island, situated within the San Juan archipelago in the Salish Sea between the Strait of Juan de Fuca and the Strait of Georgia. The subject property is bounded by Bailer Hill Road to the north, Straits View Drive to the east, Brower Lane to the south, and residential properties to the west.
Tax Parcel Number	San Juan County Parcel No. 35305002900
Approximate Area	0.97 acres
Existing Use(s)	Little Mountain Fire Station No. 33

TOPOGRAPHIC MAP	USGS, 7.5-MINUTE FALSE BAY, WASHINGTON TOPOGRAPHIC QUADRANGLE MAP DATED 2023
Local Geologic Setting	The subject property is situated within a gravelly sandy loam soil classification area, according to the Environmental Data Resources, Inc. (EDR) report (Attachment A). According to the State of Washington Department of Ecology's Geologic Legend of the San Juan Islands, 1975, the bedrock geology at the subject property is part of the Orcas Formation. The formation is Middle Permian, gray ribbon chert with interbedded green tuff lava, slate, and many other sedimentary, igneous, and metamorphic rocks.
Nearest Surface Water Bodies	Haro Strait is approximately 0.35 miles south of the subject property. Perchich Pond is located approximately 0.73 miles to the northeast. Woods Reservoir is located approximately 1 mile north. Trout Lake Reservoir is located approximately 2 miles to the north.
Approximate Surface Elevation	The subject property is approximately 200 to 205 feet above sea level according to the EDR information. The Site slopes to the south and southeast.
Subject Property Geologic/Hydrogeologic Conditions	Up to approximately 8 to 15 feet of fine to coarse sand, with varying amounts of silt and gravel. Organics in the soil are found inconsistently throughout the subject property. This soil layer is likely a product of glacial outwash deposits. Bedrock was encountered between approximately 8 to 20 feet bgs. wet soil was observed between 10 to 15 feet bgs. Groundwater occurs at various intervals within the fractured bedrock beneath the subject property at depths between approximately 30 and 180 feet bgs. Shallow groundwater is suspected to be present at the surface of the bedrock, which varies in depth across the subject property. Well No. 2 capacity is up to 11 gallons per minute (gpm) according to DOH Office of Drinking Water online database.
Inferred Direction of Shallow Groundwater Flow	To the south-southeast, based on surface topography and the location of the Haro Strait to the south.
Tanks and Utilities	GeoEngineers reviewed an as-built for the Little Mountain Fire Station's septic system, included as Attachment B. A 1,000-gallon septic tank is located approximately 12 feet east of the building and approximately 100 feet north (upgradient) of Well No. 2. The septic system includes a sand filter and drain field which is surrounded by a curtain drain. There is a 500-gallon aboveground propane tank located south of the building and an oil-water separator located east of the building adjacent to the septic tank. See Figure 2 for the approximate location of the septic system relative to the subject property. The Little Mountain Fire Station building contains several floor drains that are inferred to drain to the septic system, based on review of building plans included as Attachment B.

GEOLOGY

The subject property is located on the southwestern part of San Juan Island, where surficial geologic deposits are comprised of Quaternary glaciomarine deposits that overly pre-Tertiary metamorphic bedrock (Dethier, White and Brookfield 1996; Logan 2003). Pre-Tertiary bedrock units in the vicinity of the subject property include Triassic to Cretaceous metasedimentary rocks of the Constitution Formation and the Orcas Formation, emplaced along the late-Cretaceous San Juan thrust system (Logan 2003). Geologic maps from the Washington Department of Natural Resources (DNR) show a thrust fault (Rosario Thrust Fault) located approximately 1,200 feet northeast of the subject property. The San Juan-Lopez fault scarp is located off

the coast of San Juan Island, approximately 0.5 miles south-southeast of the Subject property. The bedrock units in the vicinity of the subject property are highly fractured, resulting in a permeable but heterogeneous bedrock aquifer.

During the Fraser Glaciation, between approximately 30,000 to 10,000 years ago, the Puget lobe of the Cordilleran Ice Sheet advanced and retreated multiple times into the Puget Lowland between the Olympic and Cascade Mountain Ranges. The most recent advance of the ice sheet occurred between approximately 18,500 and 10,000 years ago. During this time, San Juan Island was covered by up to 1 mile of continental ice that deposited large amounts of glacial sediment, including outwash, till, and the glacial drift deposits visible at the surface of the subject property (Armstrong et al. 1965; Dragovich et al. 2002; Easterbrook 1986; Porter and Swanson 1998).

The boring log for HHOA Well No. 2 documents the presence of soil composed of potential glacial deposits or weathered bedrock from ground surface to 38 feet bgs, and alternating layers of chert and shale from 38 feet bgs to 183 feet bgs (Martell Well Drilling Inc. 1975). Soil conditions documented in the septic system installation permit include shallow soil consisting of a moderately well-drained loam and sandy loam with varying thicknesses of clay lenses. Outcrops of faulted metamorphic bedrock appear approximately 50 feet north of the subject property along Bailer Hill Road.

HYDROGEOLOGY AND SURFACE WATER

Shallow perched groundwater in the vicinity of the subject property occurs within unconsolidated, Quaternary glaciomarine deposits. Annual precipitation for San Juan Island in the vicinity of the subject property was estimated at between 30 and 32 inches per year, with an average annual recharge rate of approximately 2 inches per year (United States Geological Survey [USGS] 2002). Recharge rates in surficial deposits are highly variable due to the heterogeneous hydrogeologic properties of glaciomarine deposits. Shallow groundwater that infiltrates the ground surface is anticipated to flow along the upper limit of the underlying bedrock, in a south-southeastern direction based on the local topography. Secondary permeability in faulted bedrock defines the underlying fractured rock aquifer.

GeoEngineers reviewed over 200 well logs within a 1-mile radius of the subject property, as shown in Figure 1. All wells evaluated were screened within the bedrock aquifer, indicating that these deposits are sufficient aquifers for residential uses in the subject property vicinity. Specific capacities and production rates of the bedrock aquifer vary due to the heterogeneity of the fracture systems. According to a review of nearby well logs, fracture zones where groundwater was found are most prevalent between approximately 90 to 160 feet bgs, with some fractures observed as shallow as approximately 40 feet bgs and as deep as approximately 400 feet bgs. The installation log for on-property HHOA Well No. 2 indicates potential water bearing fractures at depths of 38 to 40 feet bgs and 151 to 157 feet bgs. The depths of nearby wells range from 85 to 700 feet bgs, with an average well depth of 390 feet bgs. Depths to water recorded in the nearby wells range from 4 to 108 feet bgs, with an average depth to water of approximately 43 feet bgs. During GeoEngineers' limited subsurface exploration program in July 2024, shallow groundwater was observed in most borings at depths between 10 and 15 feet bgs near the soil and bedrock contact.

The largest single source of drinking water on San Juan Island is Trout Lake reservoir, which services most of the population of Friday Harbor. Private and community wells serve the rural interior and shoreline areas of the island which include the area of the subject property. The key issues for San Juan County water

resources and watershed management include low aquifer recharge rates, seawater intrusion, water right allocations that exceed water availability, failing wells during the summer months, lack of capacity to serve areas of growth, lack of monitoring and assessment of water resource capacity, and a lack of coordinated resource management (San Juan County 2004).

Historical Resources and Database Search

GeoEngineers subcontracted a regulatory list search service, EDR, to provide pertinent environmental regulatory lists and databases for current or previous facilities listed at addresses located within a 1-mile radius from the subject property. The report includes details regarding the listed facilities identified and maps showing the approximate locations of the listed facilities relative to the subject property. The results of the database search are provided in the EDR report dated June 5, 2024 (Attachment A).

The EDR report identified two sites located within 0.5 miles of the subject property: San Juan Landscaping and Maintenance (ALLSITES, Ecology Facility/Site ID: 22312) is located approximately 0.25 miles east, and Scripps Residential (ALLSITES, Ecology Facility/Site ID: 64644) is located approximately 0.45 miles southeast of the subject property. The locations of these two facilities are in the inferred cross-gradient and downgradient directions from the subject property, respectively. Washington's Facility database listed the San Juan Landscaping and Maintenance under the HAZWASTE Ecology program and the Scripps Residential site under the Water Quality (WATQUAL) Ecology program. No additional information could be found for either site. There were no Sanborn maps available for the subject property area.

Our understanding of the history of the subject property is based on a review of the information from the historical resources listed in the table below.

RESOURCE	DATA SOURCE	DATES OF COVERAGE/DATES OF KNOWLEDGE OF PROPERTY
Historical Aerial Photographs[1]	EDR Search	1941, 1972, 1981, 1990, 2006, 2011, 2015, 2019
Historical Aerial Photographs[1]	Google Earth	1985, 1990, 2005, 2006, 2008, 2009, 2011, 2012, 2014, 2015, 2016, 2017, 2018, 2020, 2022, 2024
City Directory Search	EDR Search	1992, 1995, 2000, 2005, 2010, 2014, 2017, 2020
Historical Topographic Maps	EDR Search	1954, 1972, 1981, 1994, 1998, 2014, 2017, 2020

Note:

[1] The scale of the photographs reviewed allowed for an interpretation of general property development/configuration, such as identifying most structures, roadways, and clearings. However, the scale of the photographs did not allow for identification of specific property features, such as fuel pumps, wells, or chemical storage areas on the subject property, if any.

Historical Property Use Summary

Based on historical topographic maps, aerial photographs, and city directory reports obtained from the EDR report, the subject property was undeveloped prior to the 1970s. The parcel was documented to be an orchard in the early 1900s and developed concurrently with southern and eastern properties between 1972 and 1981. The original Little Mountain Fire Station building was approximately 480 square feet (sq ft) and likely utilized an underground heating oil tank to furnace the space. In 1975, Well No. 2 was installed by Martel Well Drilling approximately 100 feet south-southeast of the building and was completed to a depth of 183 feet bgs, sourcing water from a fractured bedrock aquifer. The original fire station was

renovated in 1983 with a single-story addition of 720 sq ft. Anecdotally, Class B AFFF containing PFAS was historically stored at the fire station and used to fight certain types of fires on the island.

DATABASE AND FILE REVIEW

GeoEngineers reviewed Ecology's Contaminated Sites List database to identify sites of potential concern in the vicinity of the subject property. The subject property is listed in Ecology's database as the Bailer Hill PFAS Site (Facility Site ID: 100000405/Cleanup Site ID: 16911). No other sites were identified adjacent to the subject property. We requested reasonably ascertainable, pertinent records from Ecology for the subject property. We reviewed documents available on Ecology's website for the Bailer Hill Area PFAS site (https://apps.ecology.wa.gov/cleanupsearch/site/16911). The findings from our review of the responsive records are presented below.

Ecology File Review

The results of the April and May 2023 sampling of Well No. 2 were provided to GeoEngineers by Ecology. PFAS concentrations detected in samples collected from Well No. 2 exceeded the Maximum Contaminant Level (MCL) for drinking water in Washington State. Analytical results for the two sampling events are compared to the MCLs and summarized in Table 3 below.

TABLE 3. WELL NO. 2 SAMPLING RESULTS, APRIL AND MAY 2023

COMPOUND	APRIL 2023 CONCENTRATIONS (NG/L)	MAY 2023 CONCENTRATIONS (NG/L)	MAY 2023 (SHALLOW SEEP) CONCENTRATIONS (NG/L)	MCLS (NG/L)
PFOS	2,460	6,750	9,400	4
PFOA	146	306	373	4
PFHxS	2,900	6,800	7,550	10
PFNA	221	423	785	10
GenX	ND (<2)	ND (<2)	ND (<2)	10
PFBS	572	1,030	1,110	NE
PFHxA	296	530	660	NE
PFBA	59.9	105	138	NE
6:2 FTS	57.1	112	NA	NE
4:2 FTS	ND (<2)	ND (<2)	2.23	NE
8:2 FTS	2.08	7.05	21.2	NE
PFHpA	78.4	141	189	NE
PFHpS	126	245	293	NE
PFPeA	143	278	323	NE
PFPeS	576	1,020	1,180	NE
PFDA	ND (<2)	4.02	13.1	NE

Notes:
ng/L = nanograms per liter. ND (<2) = Not detected above the stated laboratory reporting limit. NE = Not Established.
A longer list of compounds was included in the analysis, but only detected compounds or compounds with MCLs are included here.

Approximately 20 additional drinking water wells, located in areas generally south and east of Well No. 2, were sampled in May 2023. A portion of the individual results have been shared with Ecology, and some results were provided directly to GeoEngineers by request and are discussed below.

PROPERTY OWNER INFORMATION AND NEARBY WELL DATA

GeoEngineers contacted property owners in the subject property vicinity to request analytical results for their private well drinking water samples. Property owner contact information was provided by the HCS. GeoEngineers attempted to contact the property owners via email, phone, and/or in person. Ten property owners voluntarily provided their private or community well analytical data. References to addresses or parcel numbers associated with the provided data have been omitted to maintain confidentiality, at the request of the property owners. For internal tracking purposes, each parcel and data report were assigned a unique identifier (e.g., P-#, for parcel number). Copies of the laboratory reports provided by property owners are included as Attachment C with the unique well identifier included at the top of each individual laboratory report and all owner identifying information redacted. Below is a summary of PFAS analytical results, grouped by radius distance from the subject property.

Zero to 100 yards: Drinking water analytical data from the two samples collected from Well No. 2, and one sample collected from a well located east of the subject property (P-2), had concentrations of Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), Perfluorononanoic-acid (PFNA), and Perfluorohexanesulphonic acid (PFHxS) in exceedance of applicable MCLs. PFOS and PFHxS were detected at approximately two orders of magnitude greater than other PFAS compounds. High concentrations of PFOS and PFHxS may be indicative of first generation AFFF, which is thought to be the source of the PFAS impacts documented in drinking water at the subject property.

100 to 350 Yards: Water samples collected on a quarterly basis between April 2023 and March 2024 from a well located between 100 and 350 yards southeast of the subject property (P-4) had several PFAS compounds detected at concentrations greater than the laboratory reporting limits. PFHxS was the PFAS with the greatest detected concentrations, ranging from 5.9 to 12 nanograms per liter (ng/L), with some results exceeding the MCL of 10 ng/L. PFAS compounds were not detected at concentrations greater than laboratory reporting limits in samples collected from two other wells located between 100 and 350 yards northeast and southwest of the subject property (P-3 and P-5).

350 to 500 Yards: A water sample collected from a well located between 350 and 500 yards southwest of the subject property (P-7) had several PFAS detected at concentrations greater than laboratory reporting limits. PFHxS was detected at a concentration (29 ng/L) exceeding the MCL of 10 ng/L. PFAS compounds were not detected at concentrations greater than laboratory reporting limits in samples collected from two other wells located between 350 and 500 yards away from the subject property (P-6 and Hannah Heights Well No. 3).

500 to 1,000 Yards: A water sample collected from a well located between 500 and 1,000 yards southeast of the subject property (P-8) had detectable concentrations of PFOA, PFOS, PFHxS, and Perflourobutanesulfonic acid (PFBS). The detected concentration of PFHxS (48 ng/L) exceeds the MCL of 10 ng/L.

The PFHxS exceedances in samples at a greater distance from the subject property may be related to the compound's chemical structure. The tail of PFHxS is shorter than that of PFOS; PFAS compounds with shorter tails generally move faster in groundwater, while compounds with longer tails generally stay closer to the source area.

FUTURE DATA COLLECTION

At the time of this memorandum, GeoEngineers has not received drinking water sample results from numerous nearby properties. To assess PFAS concentrations in homeowner's drinking water, a round of drinking water samples should be collected from all accessible private water wells in the subject property vicinity during a single sampling event. Developing a more complete drinking water database, with recent sample results, will allow for a more thorough assessment of potential PFAS migration in the subsurface.

Ecology is currently investigating soil and groundwater conditions at the subject property and the results of those investigations will be provided in a forthcoming investigation report. Future field investigations should be designed based on the 2024 data collected on the subject property and could include the installation of additional wells on the subject property, as needed, the installation of monitoring wells at key off-property locations, the collection of off-property soil samples, and collection of surface water samples at locations hydraulically downgradient of the subject property.

SUMMARY

Based on the results of sampling completed at Well No. 2, the Little Mountain Fire Station is a suspected source of PFAS in groundwater at the subject property and has been identified in Ecology's Confirmed and Suspected Contaminated Sites Database. Potential off-property sources for PFAS were not identified during our database and file review. AFFF was historically stored at the fire station, though spills/releases of AFFF at the fire station were not reported based on the information reviewed. Potential sources for PFAS in soil and groundwater at the subject property include spills of AFFF to the ground outside the fire station building or on the floor inside the fire station building. Floor drains inside the fire station appear to drain to the on-property septic system based on review of available building plans. The septic system includes a 1,000-gallon tank, an oil water separator tank, sand filter, drain field, and curtain drain located approximately 100 feet north and upgradient of Well No. 2. Spills of AFFF to the floor inside the fire station or residual AFFF on equipment parked inside the building could have entered the floor drains and the septic system, discharging to shallow soil in the drain field. Fire station's clothing and equipment laundered and cleaned on-site could also contribute PFAS contamination through the fire station's septic system drain field. Ecology is conducting investigations at the subject property which are intended to provide data to inform potential sources for PFAS in soil and groundwater and evaluate the extent of PFAS contamination at the subject property. The results of the investigations will be published in a forthcoming soil and groundwater investigation report.

LIMITATIONS

This memorandum has been prepared for the exclusive use of Ecology. Because this environmental memorandum is not intended for use by others, no one except Ecology should rely on this memorandum without first conferring with GeoEngineers.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices in this area at the time this memorandum was prepared. No warranty or other conditions, express or implied, should be understood.

Attachments:

Figure 1. Vicinity Map

Figure 2. Site Plan

Figure 3. Water System Layout Plan

Attachment A. Environmental Data Resource, Inc. (EDR) Report

Attachment B. Little Mountain Fire Station Septic As-Built and Building Plan

Attachment C. Homeowner Provided Laboratory Reports

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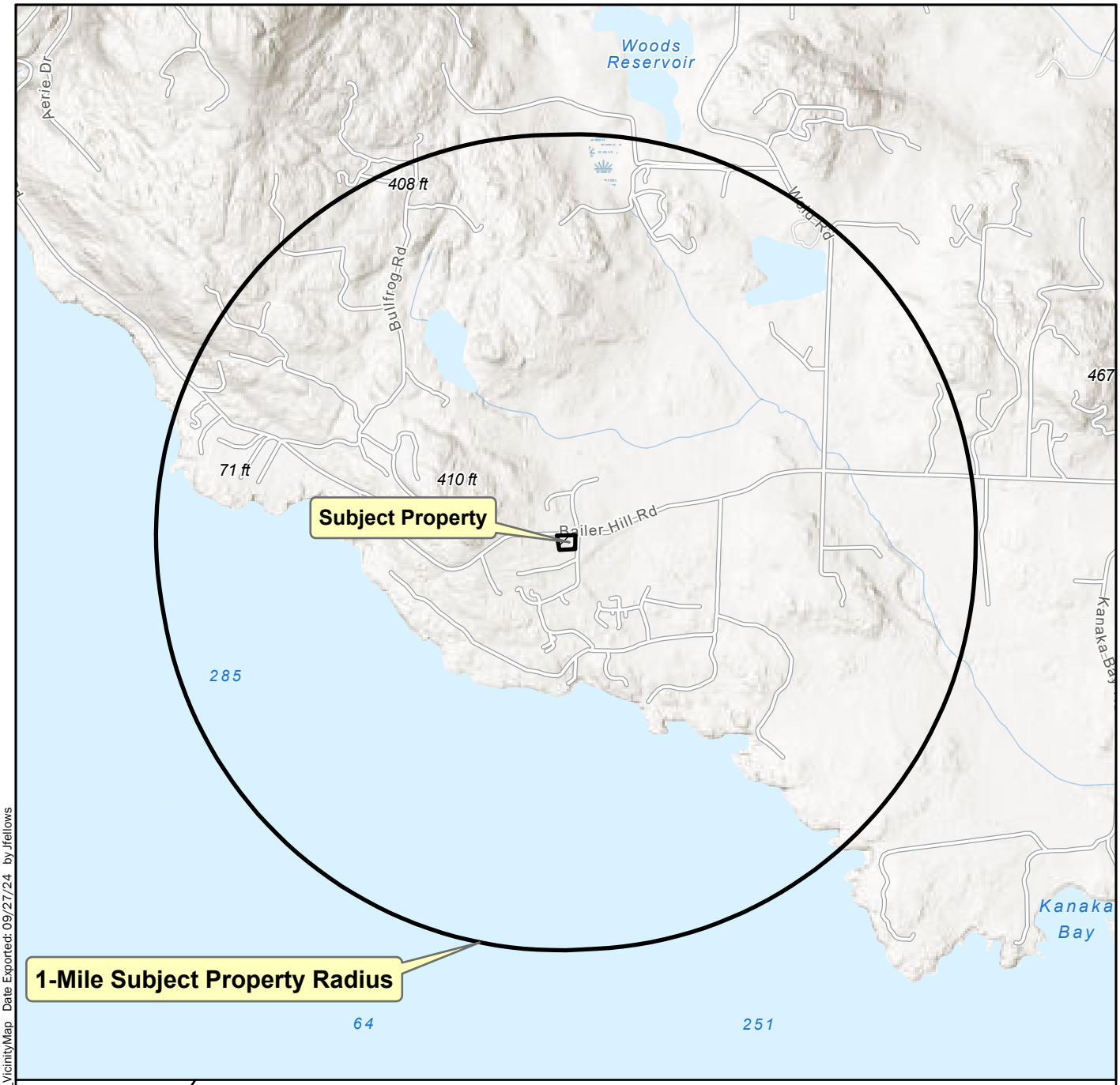

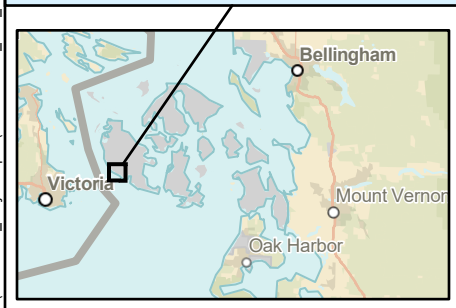

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Source(s):
- ESRI

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet

Vicinity Map

Data Review Memorandum
Bailer Hill Road and Straits View Road
Friday Harbor, Washington

GeoEngineers

Figure 1

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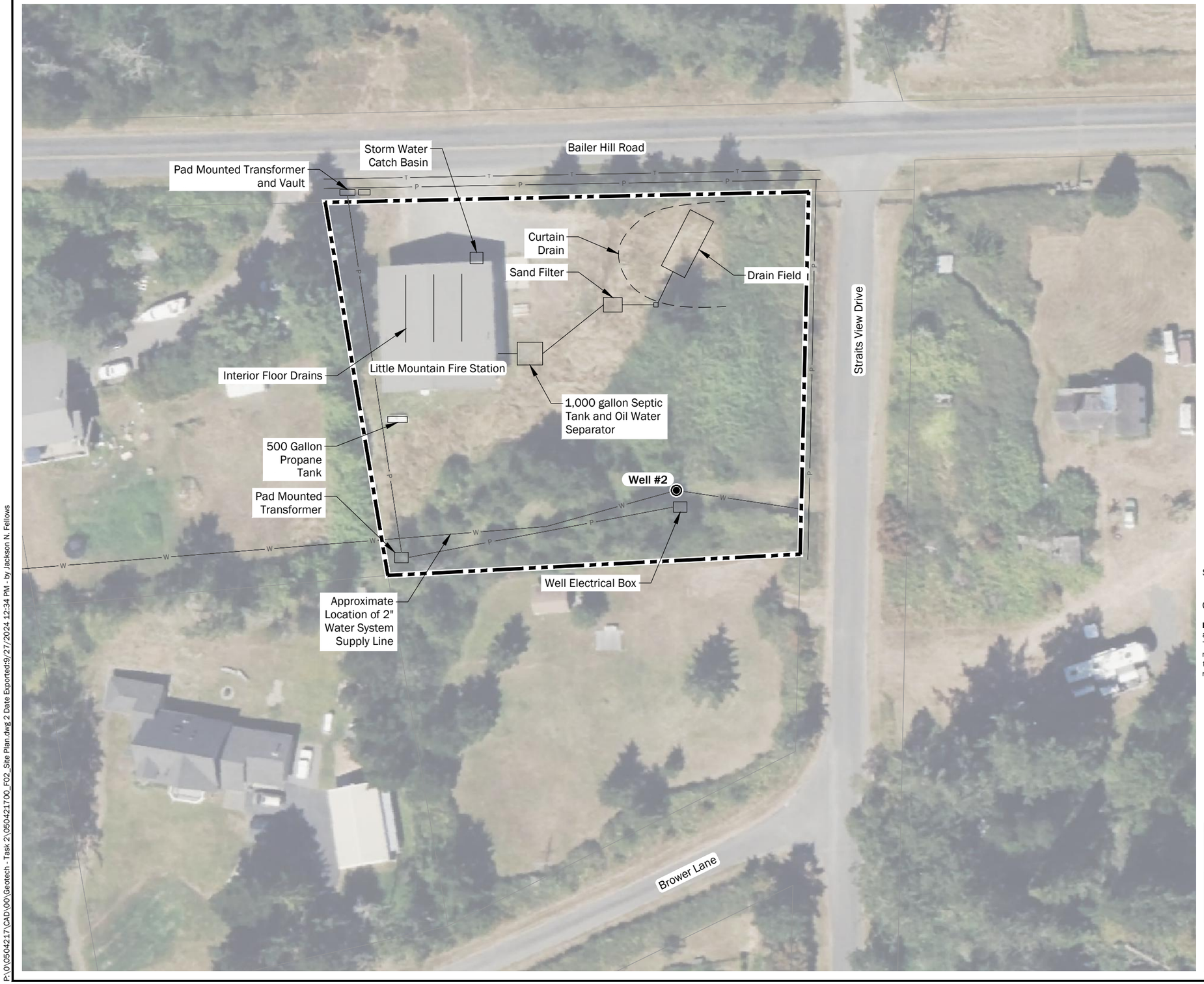

Legend

- Subject Property Boundary
- Approximate Water Line Location
- Approximate Underground Power Line
- Approximate Underground Telecoms Line
- Well #2 — Approximate Well Location
- Approximate Location of Underground Infrastructure

Source(s):
- Aerial from Microsoft Bing, 2023

Coordinate System: WA State Plane, North Zone, NAD83, US Foot

Disclaimer: This figure was created for a specific purpose and project. Any use of this figure for any other project or purpose shall be at the user's sole risk and without liability to GeoEngineers. The locations of features shown may be approximate. GeoEngineers makes no warranty or representation as to the accuracy, completeness, or suitability of the figure, or data contained therein. The file containing this figure is a copy of a master document, the original of which is retained by GeoEngineers and is the official document of record.

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Site Plan

Data Review Memorandum
Bailer Hill Road and Straits View Drive
Friday Harbor, Washington

GeoEngineers

Figure 2

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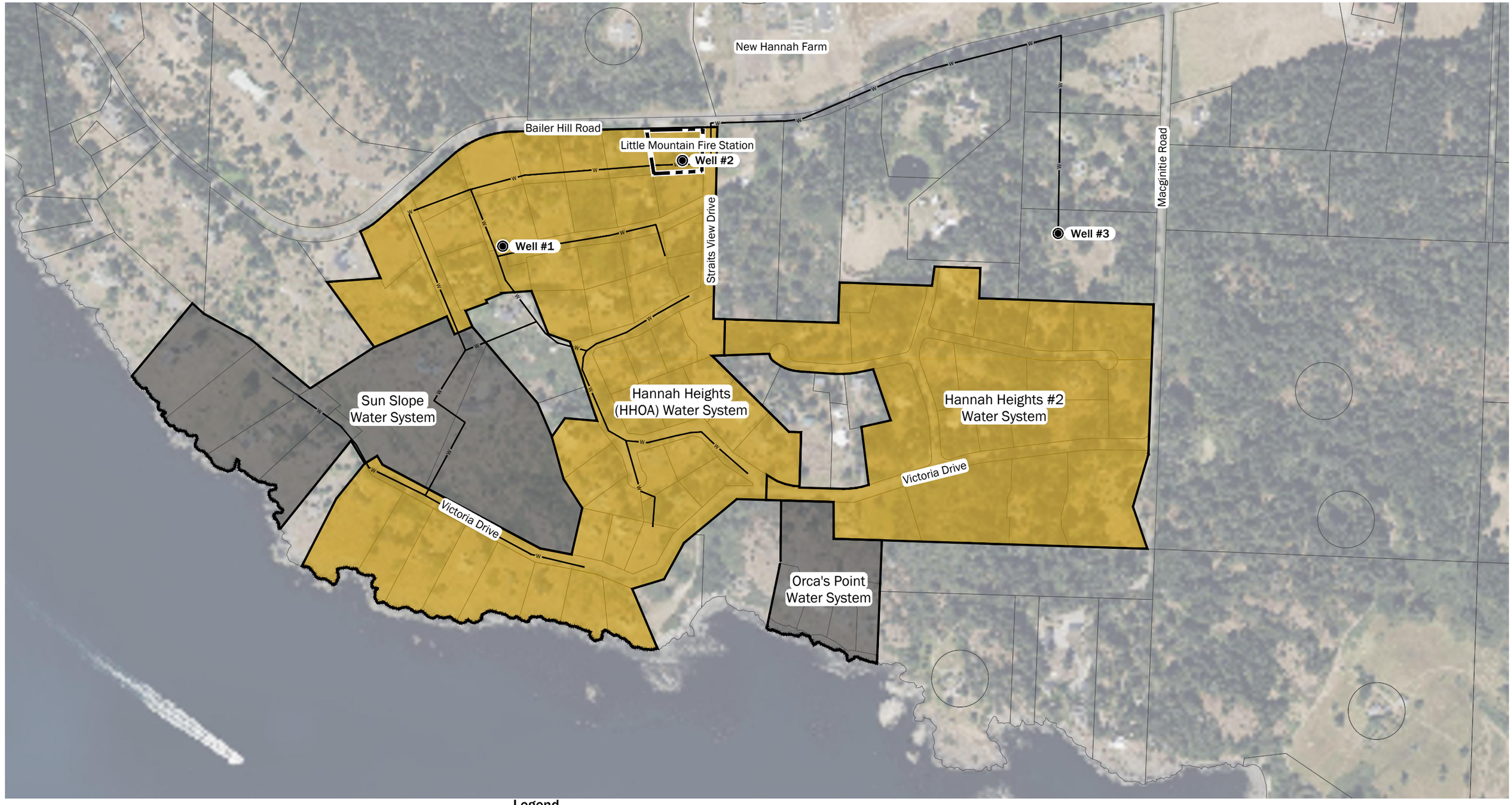

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Source(s):
- Aerial from Microsoft Bing, 2023
- Washington State Department of Health, Office of Drinking Water, Source Water Assessment Program (SWAP)

Coordinate System: WA State Plane, North Zone, NAD83, US Foot

Legend

- Subject Property Boundary
- Approximate Water Line Location
- Parcels
- Well #2 — Approximate Well Location
- Group A Water System
- Group B Water System

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Water System Layout Plan

Data Review Memorandum
Bailer Hill Road and Straits View Drive
Friday Harbor, Washington

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Figure 3

Attachment A

Environmental Data Resource, Inc. (EDR) Report

Bailer Hill Road

3189 Bailer Hill Rd

Friday Harbor, WA 98250

Inquiry Number: 7672622.3

June 05, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/05/24

Site Name:

Bailer Hill Road
3189 Bailer Hill Rd
Friday Harbor, WA 98250
EDR Inquiry # 7672622.3

Client Name:

GeoEngineers, Inc.
239 Casuseway street
Boston, MA 02114
Contact: Matthew Mcgavick

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by GeoEngineers, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # B2D5-43E8-B168

PO # 000504-217-00

Project Bailer Hill Road

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: B2D5-43E8-B168

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

GeoEngineers, Inc. (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Bailer Hill Road

3189 Bailer Hill Rd

Friday Harbor, WA 98250

Inquiry Number: 7672622.4

June 05, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/05/24

Site Name:

Bailer Hill Road
3189 Bailer Hill Rd
Friday Harbor, WA 98250
EDR Inquiry # 7672622.4

Client Name:

GeoEngineers, Inc.
239 Casuseway street
Boston, MA 02114
Contact: Matthew Mcgavick

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by GeoEngineers, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 000504-217-00
Project: Bailer Hill Road

Coordinates:

Latitude:	48.497283 48° 29' 50" North
Longitude:	-123.113178 -123° 6' 47" West
UTM Zone:	Zone 10 North
UTM X Meters:	491638.89
UTM Y Meters:	5371579.75
Elevation:	206.01' above sea level

Maps Provided:

2020
2017
2014
1994, 1998
1981
1972
1954

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets

False Bay
2020
7.5-minute, 24000

Friday Harbor
2020
7.5-minute, 24000

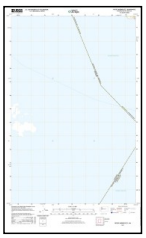
Roche Harbor OE S
2020
7.5-minute, 24000

Roche Harbor
2020
7.5-minute, 24000

2017 Source Sheets

False Bay
2017
7.5-minute, 24000

Friday Harbor
2017
7.5-minute, 24000



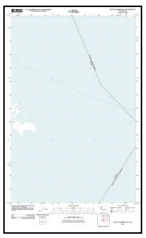
Roche Harbor OE S
2017
7.5-minute, 24000

Roche Harbor
2017
7.5-minute, 24000

2014 Source Sheets

False Bay
2014
7.5-minute, 24000

Friday Harbor
2014
7.5-minute, 24000



Roche Harbor OE S
2014
7.5-minute, 24000

Roche Harbor
2014
7.5-minute, 24000

1994, 1998 Source Sheets

Roche Harbor
1994
7.5-minute, 24000
Aerial Photo Revised 1989

Friday Harbor
1994
7.5-minute, 24000
Aerial Photo Revised 1989

False Bay
1998
7.5-minute, 24000
Aerial Photo Revised 1998

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1981 Source Sheets

Friday Harbor
1981
7.5-minute, 24000
Aerial Photo Revised 1978

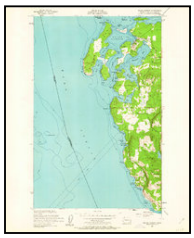
Roche Harbor
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets

False Bay
1972
7.5-minute, 24000
Aerial Photo Revised 1949

1954 Source Sheets

Friday Harbor
1954
7.5-minute, 24000
Aerial Photo Revised 1949

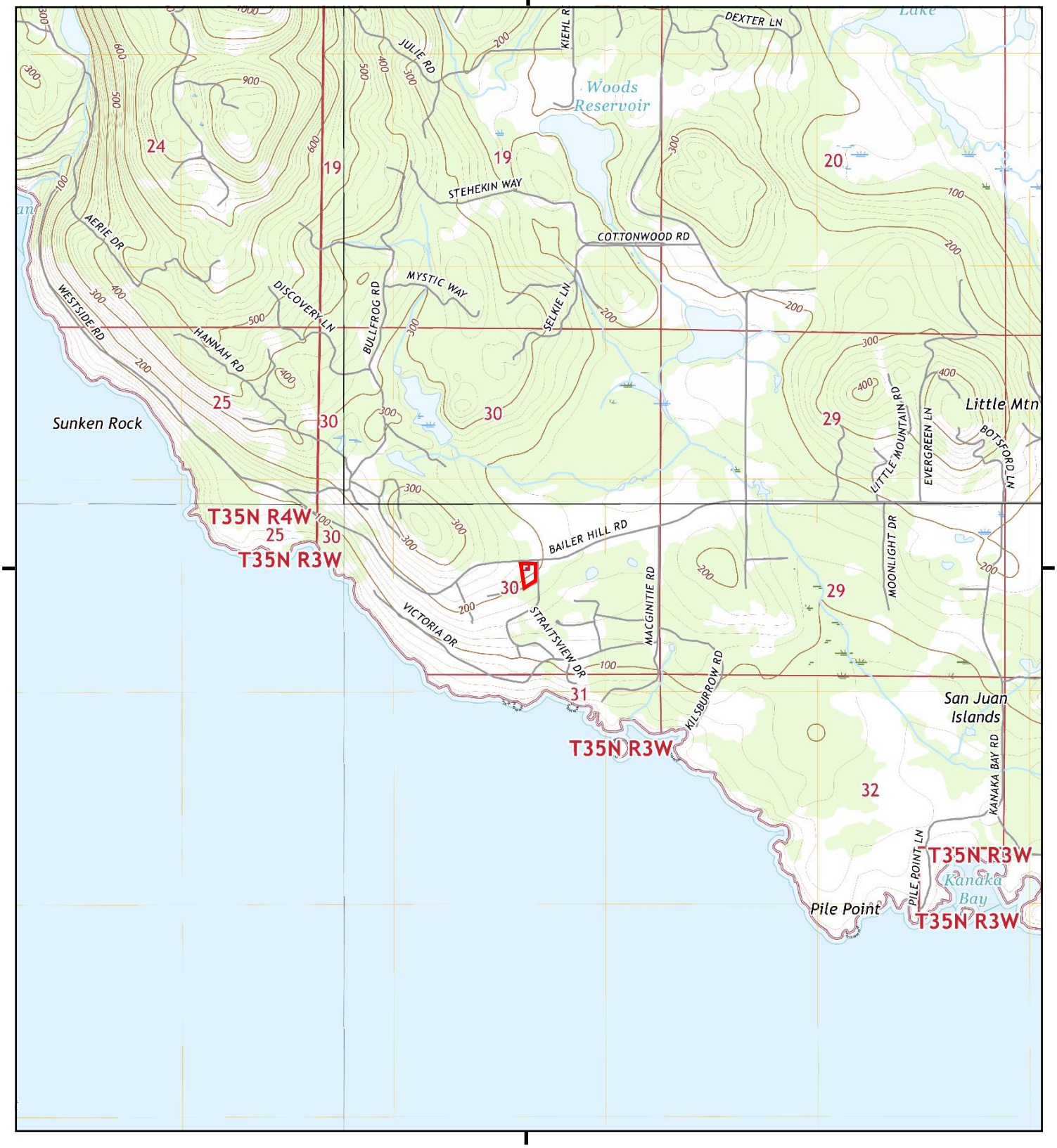


Roche Harbor
1954
7.5-minute, 24000
Aerial Photo Revised 1949

False Bay
1954
7.5-minute, 24000
Aerial Photo Revised 1949

Historical Topo Map

2020



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

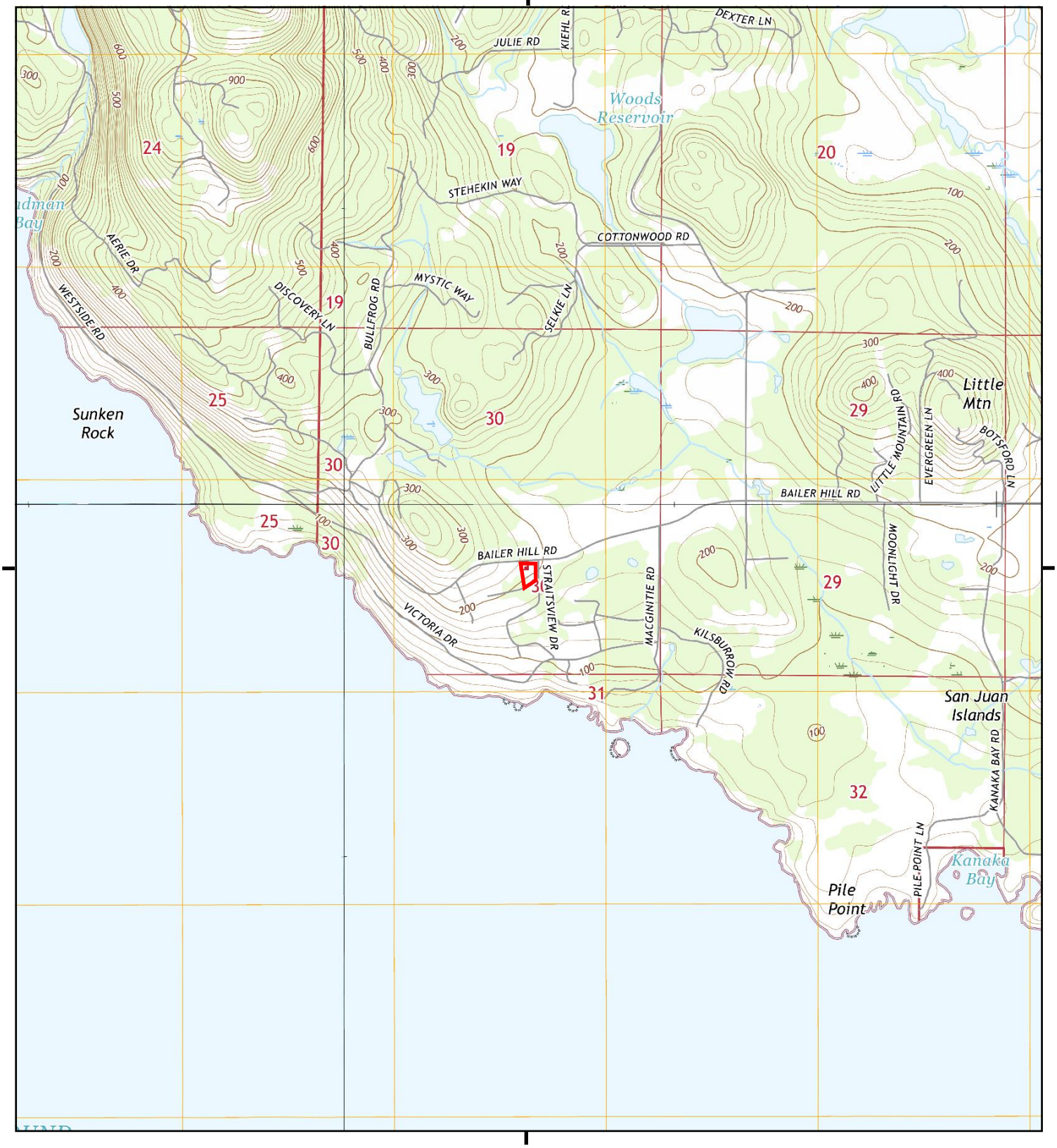
TP, False Bay, 2020, 7.5-minute
NE, Friday Harbor, 2020, 7.5-minute
SW, Roche Harbor OE S, 2020, 7.5-minute
NW, Roche Harbor, 2020, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N

Historical Topo Map

2017



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

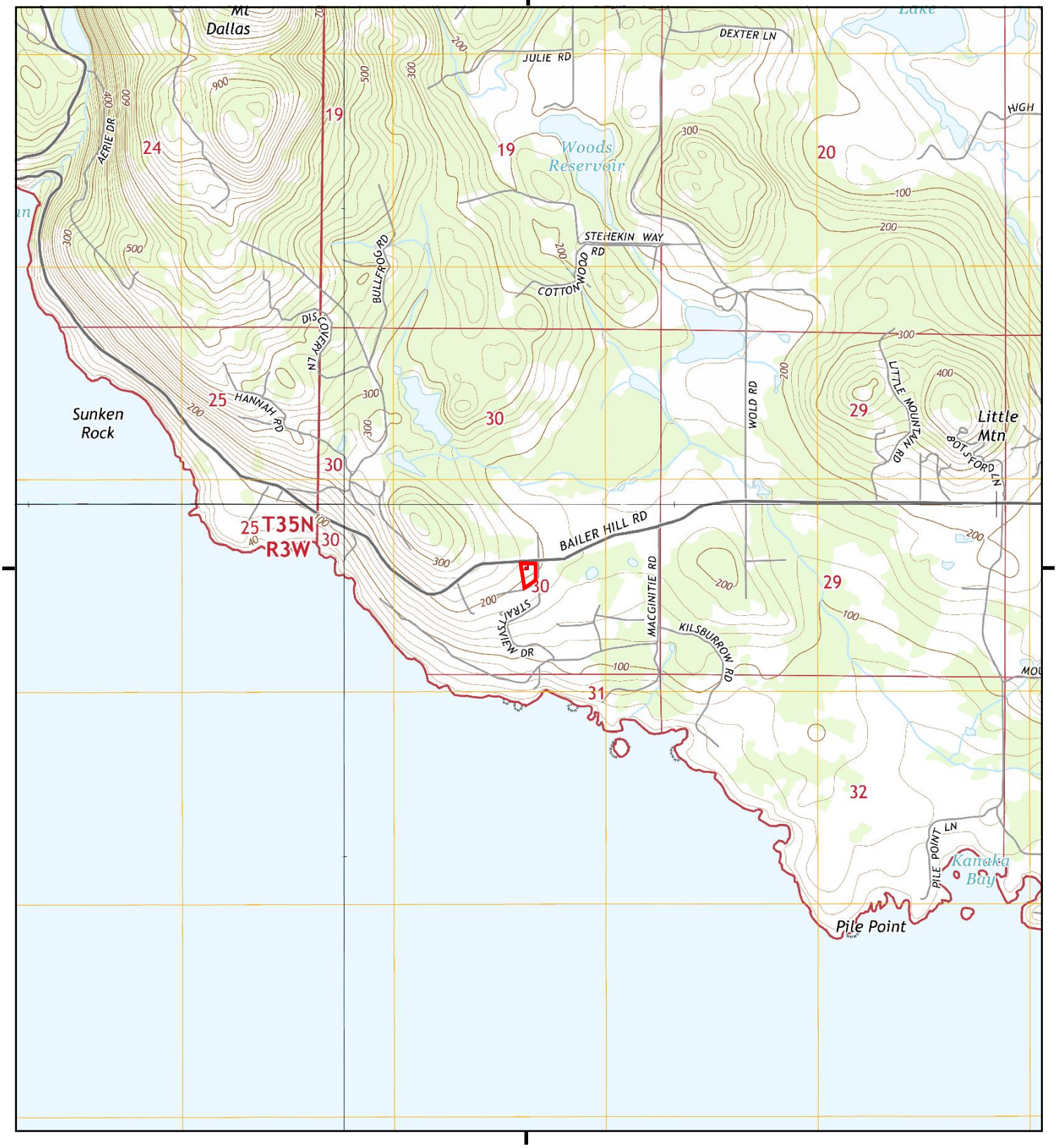
TP, False Bay, 2017, 7.5-minute
NE, Friday Harbor, 2017, 7.5-minute
SW, Roche Harbor OE S, 2017, 7.5-minute
NW, Roche Harbor, 2017, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N

Historical Topo Map

2014



This report includes information from the following map sheet(s).

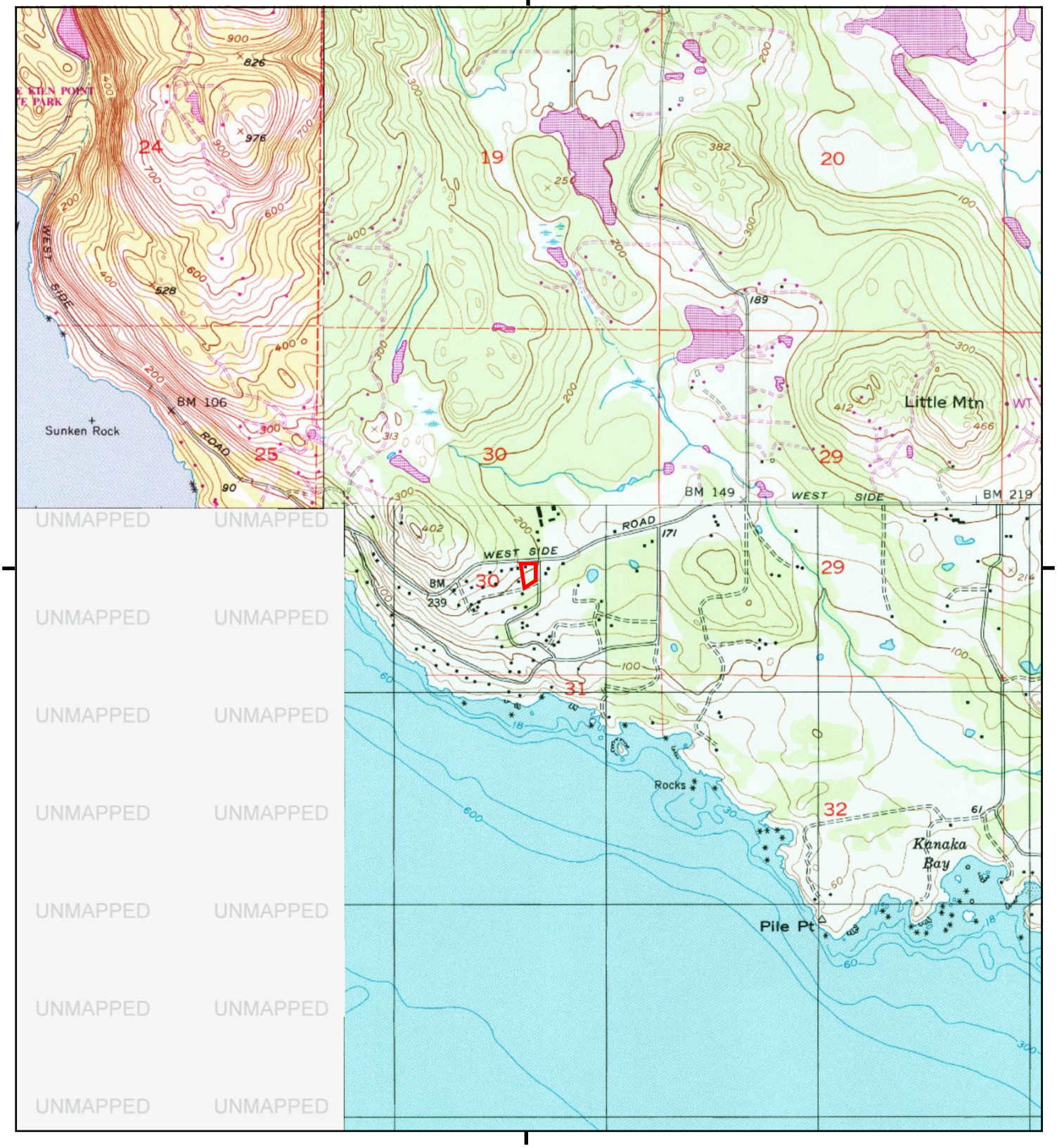
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, False Bay, 2014, 7.5-minute
NE, Friday Harbor, 2014, 7.5-minute
SW, Roche Harbor OE S, 2014, 7.5-minute
NW, Roche Harbor, 2014, 7.5-minute

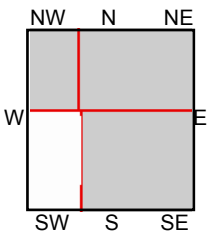
SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N



This report includes information from the following map sheet(s).

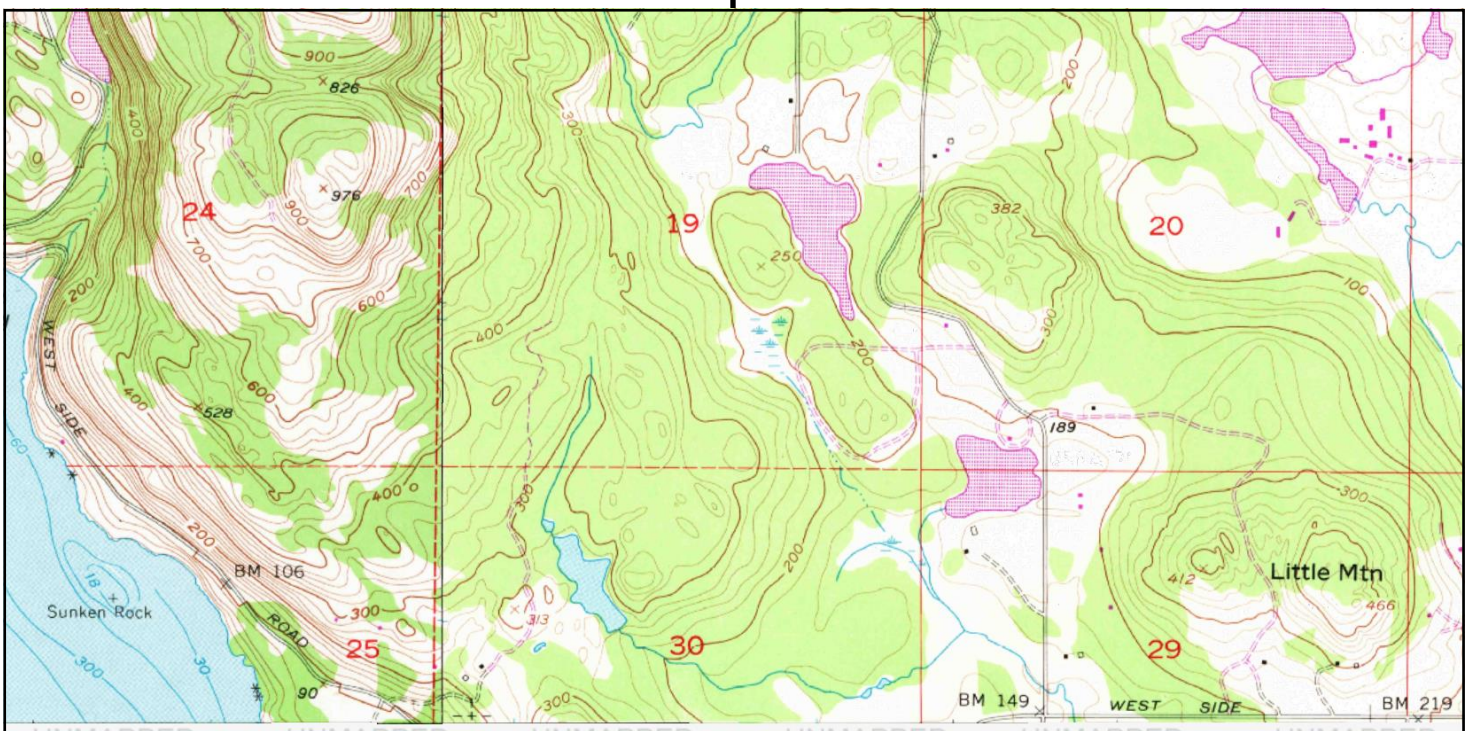
0 Miles 0.25 0.5 1 1.5



TP, False Bay, 1998, 7.5-minute
NE, Friday Harbor, 1994, 7.5-minute
NW, Roche Harbor, 1994, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N



This report includes information from the following map sheet(s).

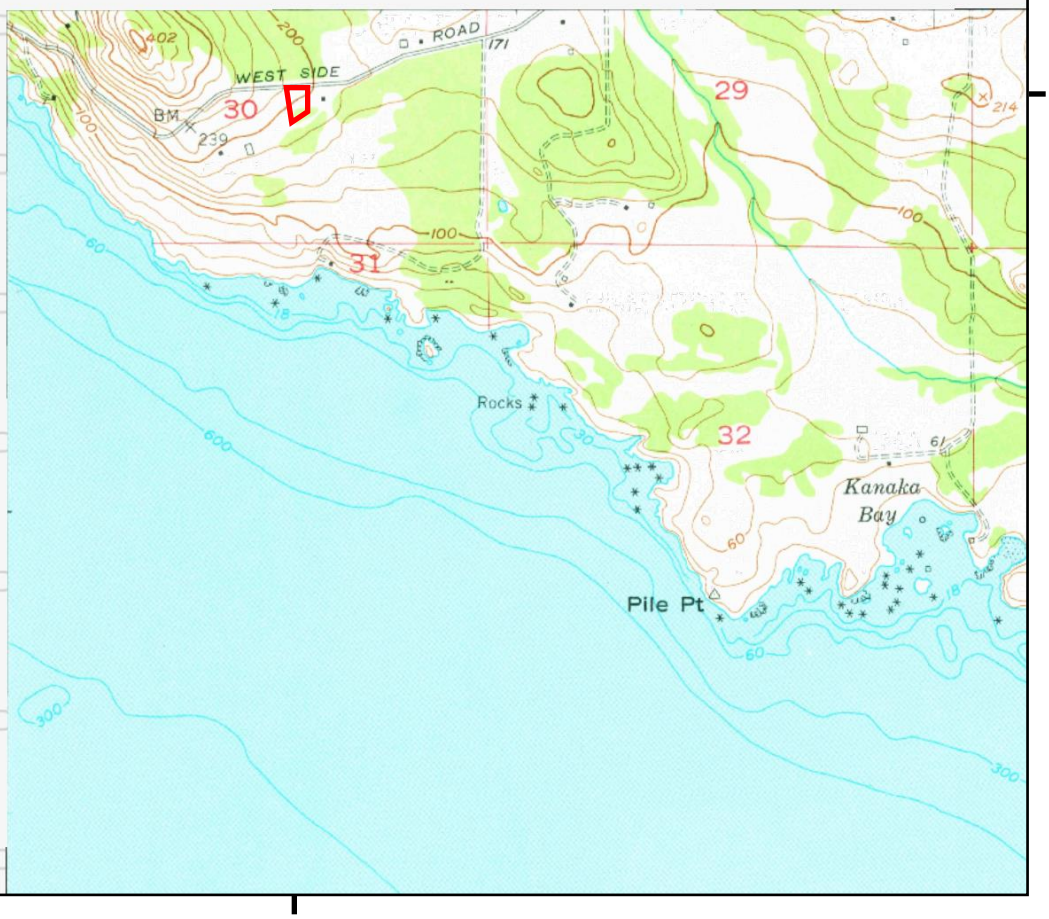
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

NE, Friday Harbor, 1981, 7.5-minute
NW, Roche Harbor, 1981, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N



This report includes information from the following map sheet(s).

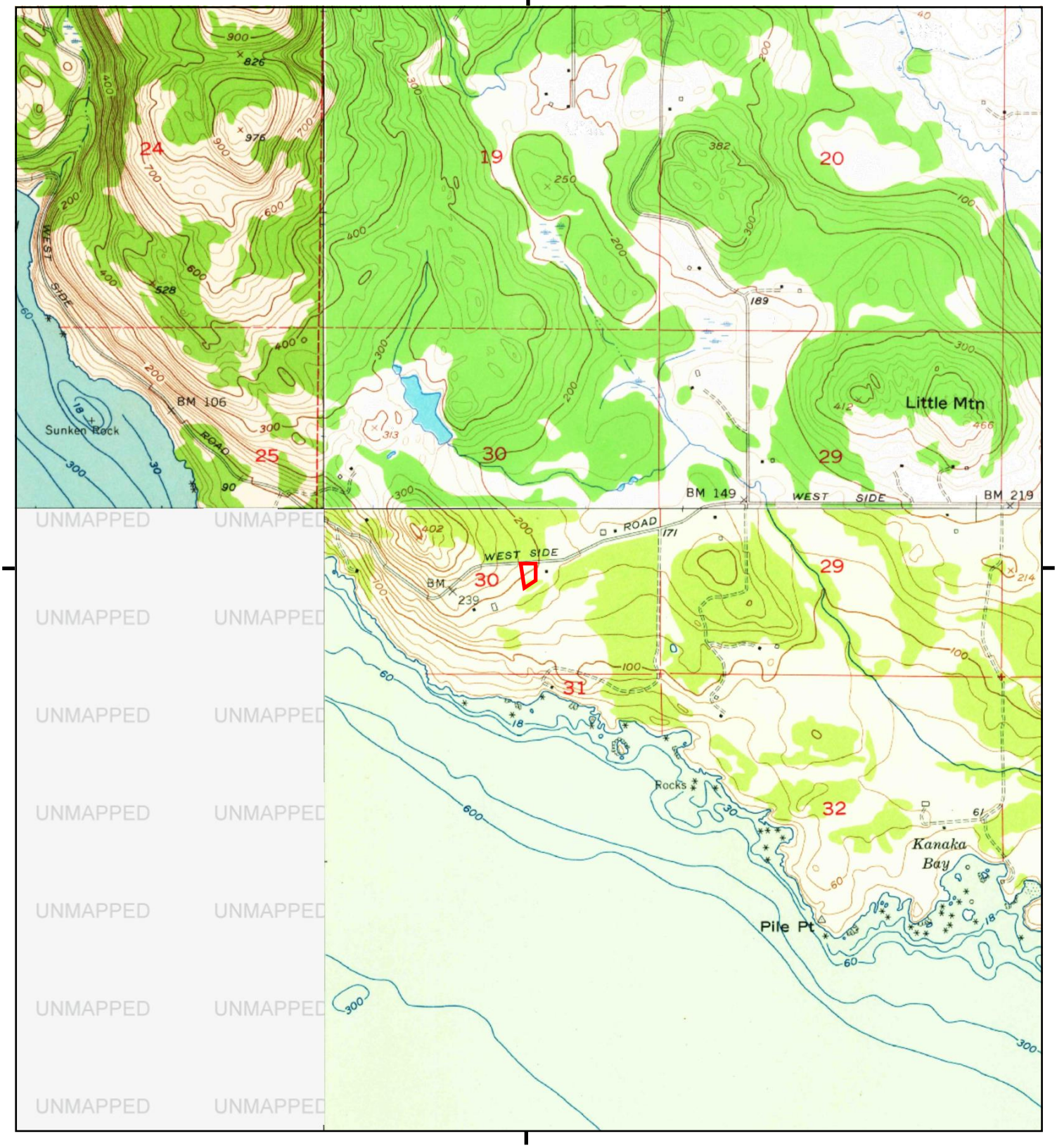
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, False Bay, 1972, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, False Bay, 1954, 7.5-minute
NE, Friday Harbor, 1954, 7.5-minute
NW, Roche Harbor, 1954, 7.5-minute

SITE NAME: Bailer Hill Road
ADDRESS: 3189 Bailer Hill Rd
Friday Harbor, WA 98250
CLIENT: GeoEngineers, Inc.

N

Bailer Hill Road

3189 Bailer Hill Rd

Friday Harbor, WA 98250

Inquiry Number: 7672622.8

June 06, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/06/24

Site Name:

Bailer Hill Road
3189 Bailer Hill Rd
Friday Harbor, WA 98250
EDR Inquiry # 7672622.8

Client Name:

GeoEngineers, Inc.
239 Casuseway street
Boston, MA 02114
Contact: Matthew Mcgavick

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2019	1"=500'	Flight Year: 2019	USDA/NAIP
2015	1"=500'	Flight Year: 2015	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1990	1"=500'	Acquisition Date: July 10, 1990	USGS/DOQQ
1981	1"=500'	Flight Date: August 05, 1981	USGS
1972	1"=500'	Flight Date: May 04, 1972	USGS
1941	1"=500'	Flight Date: June 27, 1941	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

INQUIRY #: 7672622.8

YEAR: 2019

= 500'

N

EDR

INQUIRY #: 7672622.8

YEAR: 2015

= 500'

N

EDR

INQUIRY #: 7672622.8

YEAR: 2011

= 500'

N

EDR


INQUIRY #: 7672622.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 7672622.8

YEAR: 1990

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7672622.8

YEAR: 1981

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

INQUIRY #: 7672622.8

YEAR: 1972

= 500'

N

EDR

INQUIRY #: 7672622.8

YEAR: 1941

= 500'

N

EDR

Bailer Hill Road
3189 Bailer Hill Rd
Friday Harbor, WA 98250

Inquiry Number: 7672622.2s
June 05, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

3189 BAILER HILL RD
FRIDAY HARBOR, WA 98250

COORDINATES

Latitude (North):	48.4972830 - 48° 29' 50.21''
Longitude (West):	123.1131780 - 123° 6' 47.44''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	491638.6
UTM Y (Meters):	5371361.0
Elevation:	206 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14718167 FALSE BAY, WA
Version Date:	2020
Northeast Map:	14718169 FRIDAY HARBOR, WA
Version Date:	2020
Southwest Map:	14718181 ROCHE HARBOR OE S, WA
Version Date:	2020
Northwest Map:	14718179 ROCHE HARBOR, WA
Version Date:	2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20191010
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
3189 BAILER HILL RD
FRIDAY HARBOR, WA 98250

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	BAILER HILL AREA PFA	BAILER HILL RD & STR	CSCSL, VCP, ALLSITES, PFAS	Lower	42, 0.008, NE
2	SAN JUAN LANDSCAPING	2901 BAILER HILL RD	ALLSITES	Lower	1333, 0.252, ENE
3	SCRIPPS RESIDENTIAL	535 MACGINITIE ROAD	ALLSITES, UIC	Lower	2353, 0.446, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

HSL..... Hazardous Sites List

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Facility Database

Lists of state and tribal leaking storage tanks

LUST..... Leaking Underground Storage Tanks Site List
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Underground Storage Tank Database
AST..... Aboveground Storage Tank Locations
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Control Site List

Lists of state and tribal voluntary cleanup sites

ICR..... Independent Cleanup Reports
INDIAN VCP..... Voluntary Cleanup Priority Listing
PTAP..... PTAP Site Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Facility List
SWTIRE..... Solid Waste Tire Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory

IHS OPEN DUMPS - Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL - Delisted National Clandestine Laboratory Register
CDL - Clandestine Drug Lab Contaminated Site List
HIST CDL - List of Sites Contaminated by Clandestine Drug Labs
CSCSL NFA - Confirmed & Contaminated Sites - No Further Action
US CDL - National Clandestine Laboratory Register

Local Land Records

LIENS 2 - CERCLA Lien Information

Records of Emergency Release Reports

HMIRS - Hazardous Materials Information Reporting System
SPILLS - Reported Spills
SPILLS 90 - SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR - RCRA - Non Generators / No Longer Regulated
FUDS - Formerly Used Defense Sites
DOD - Department of Defense Sites
SCRD DRYCLEANERS - State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR - Financial Assurance Information
EPA WATCH LIST - EPA WATCH LIST
2020 COR ACTION - 2020 Corrective Action Program List
TSCA - Toxic Substances Control Act
TRIS - Toxic Chemical Release Inventory System
SSTS - Section 7 Tracking Systems
ROD - Records Of Decision
RMP - Risk Management Plans
RAATS - RCRA Administrative Action Tracking System
PRP - Potentially Responsible Parties
PADS - PCB Activity Database System
ICIS - Integrated Compliance Information System
FTTS - FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS - Material Licensing Tracking System
COAL ASH DOE - Steam-Electric Plant Operation Data
COAL ASH EPA - Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
CONSENT - Superfund (CERCLA) Consent Decrees
INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
ABANDONED MINES - Abandoned Mines

MINES MRDS Mineral Resources Data System
FINDS Facility Index System/Facility Registry System
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
ECHO Enforcement & Compliance History Information
FUELS PROGRAM EPA Fuels Program Registered Listing
PFAS NPL Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES Federal Sites PFAS Information
PFAS TSCA PFAS Manufacture and Imports Information
PFAS TRIS List of PFAS Added to the TRI
PFAS RCRA MANIFEST PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR PFAS Contamination Site Location Listing
PFAS WQP Ambient Environmental Sampling for PFAS
PFAS NPDES Clean Water Act Discharge Monitoring Information
PFAS ECHO Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC Aqueous Foam Related Incidents Listing
BIOSOLIDS ICIS-NPDES Biosolids Facility Data
AQUEOUS FOAM Firefighting Foam Incidents
AIRS Washington Emissions Data System
ASBESTOS ASBESTOS
COAL ASH Coal Ash Disposal Site Listing
DRYCLEANERS Drycleaner List
Financial Assurance Financial Assurance Information Listing
Inactive Drycleaners Inactive Drycleaners
MANIFEST Hazardous Waste Manifest Data
NPDES Water Quality Permit System Data
UIC Underground Injection Wells Listing
UST FINDER UST Finder Database
UST FINDER RELEASE UST Finder Releases Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS Recovered Government Archive State Hazardous Waste Facilities List
RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

CSCSL: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Ecology's Confirmed & Suspected Contaminated Sites List.

A review of the CSCSL list, as provided by EDR, and dated 01/09/2024 has revealed that there is 1 CSCSL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILER HILL AREA PFA	***BAILER HILL RD & STR***	***NE 0 - 1/8 (0.008 mi.)***	***1***	***8***
Site Status: Awaiting Cleanup Clean Up Siteid: 16911 Facility ID: 100000405 Soil: Suspected Ground Water: Confirmed Above Cleanup Levels Contaminant Name: Per- and polyfluoroalkyl substances (PFAS)				

Lists of state and tribal voluntary cleanup sites

VCP: Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

A review of the VCP list, as provided by EDR, and dated 01/09/2024 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILER HILL AREA PFA	***BAILER HILL RD & STR***	***NE 0 - 1/8 (0.008 mi.)***	***1***	***8***
VCP Status: Awaiting Cleanup Facility ID: 100000405 Cleanup Siteid: 16911 VCP Status: Awaiting Cleanup				

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: Information on facilities and sites of interest to the Department of Ecology.

A review of the ALLSITES list, as provided by EDR, and dated 01/23/2024 has revealed that there are 3 ALLSITES sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILER HILL AREA PFA Facility Id: 100000405	***BAILER HILL RD & STR***	***NE 0 - 1/8 (0.008 mi.)***	***1***	***8***
SAN JUAN LANDSCAPING Facility Id: 22312	2901 BAILER HILL RD	ENE 1/4 - 1/2 (0.252 mi.)	2	10
SCRIPPS RESIDENTIAL Facility Id: 64644	***535 MACGINITIE ROAD***	***SE 1/4 - 1/2 (0.446 mi.)***	***3***	***11***

Other Ascertainable Records

PFAS: PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

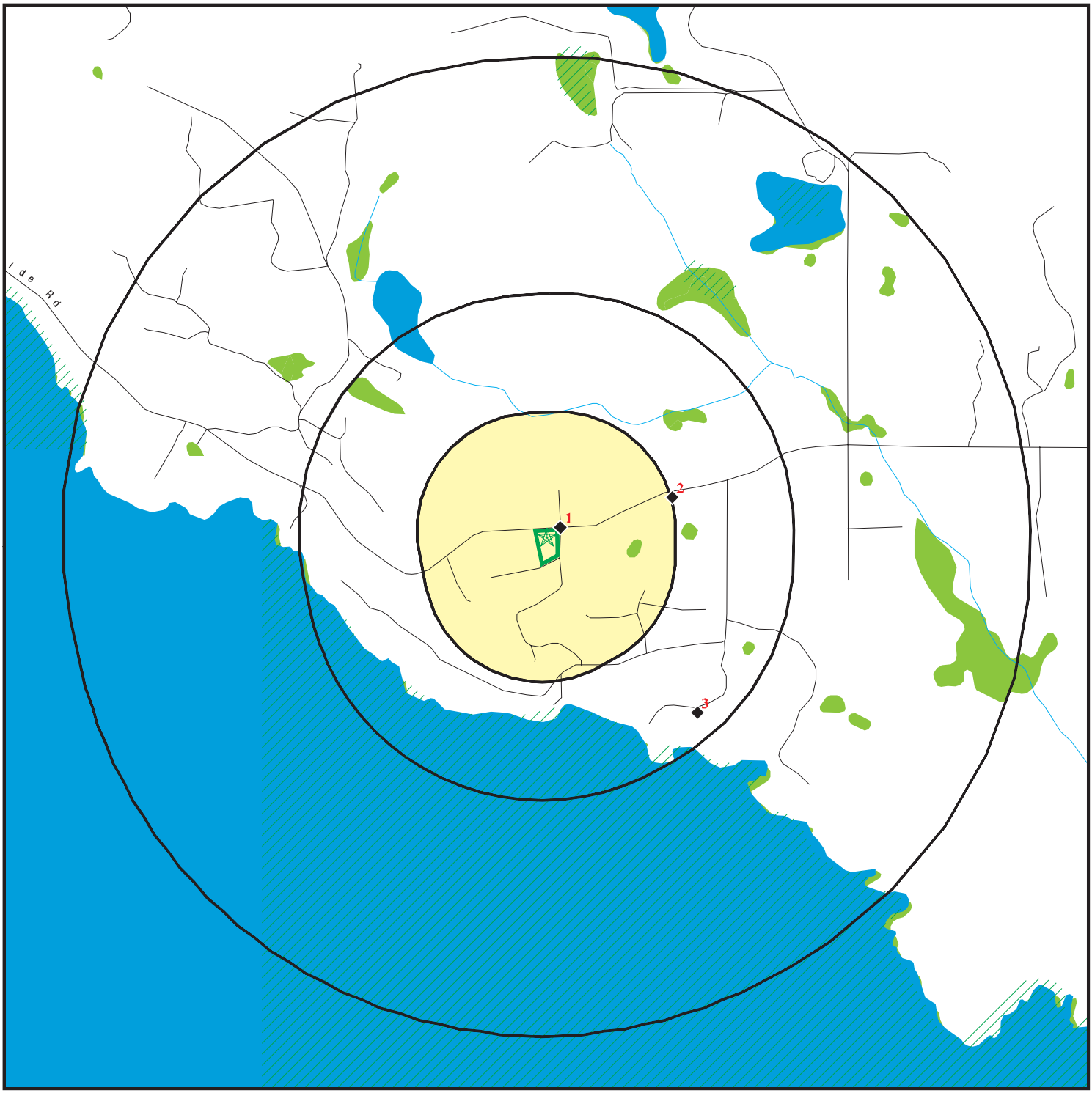
A review of the PFAS list, as provided by EDR, and dated 12/27/2023 has revealed that there is 1 PFAS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BAILER HILL AREA PFA	***BAILER HILL RD & STR***	***NE 0 - 1/8 (0.008 mi.)***	***1***	***8***

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7672622.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

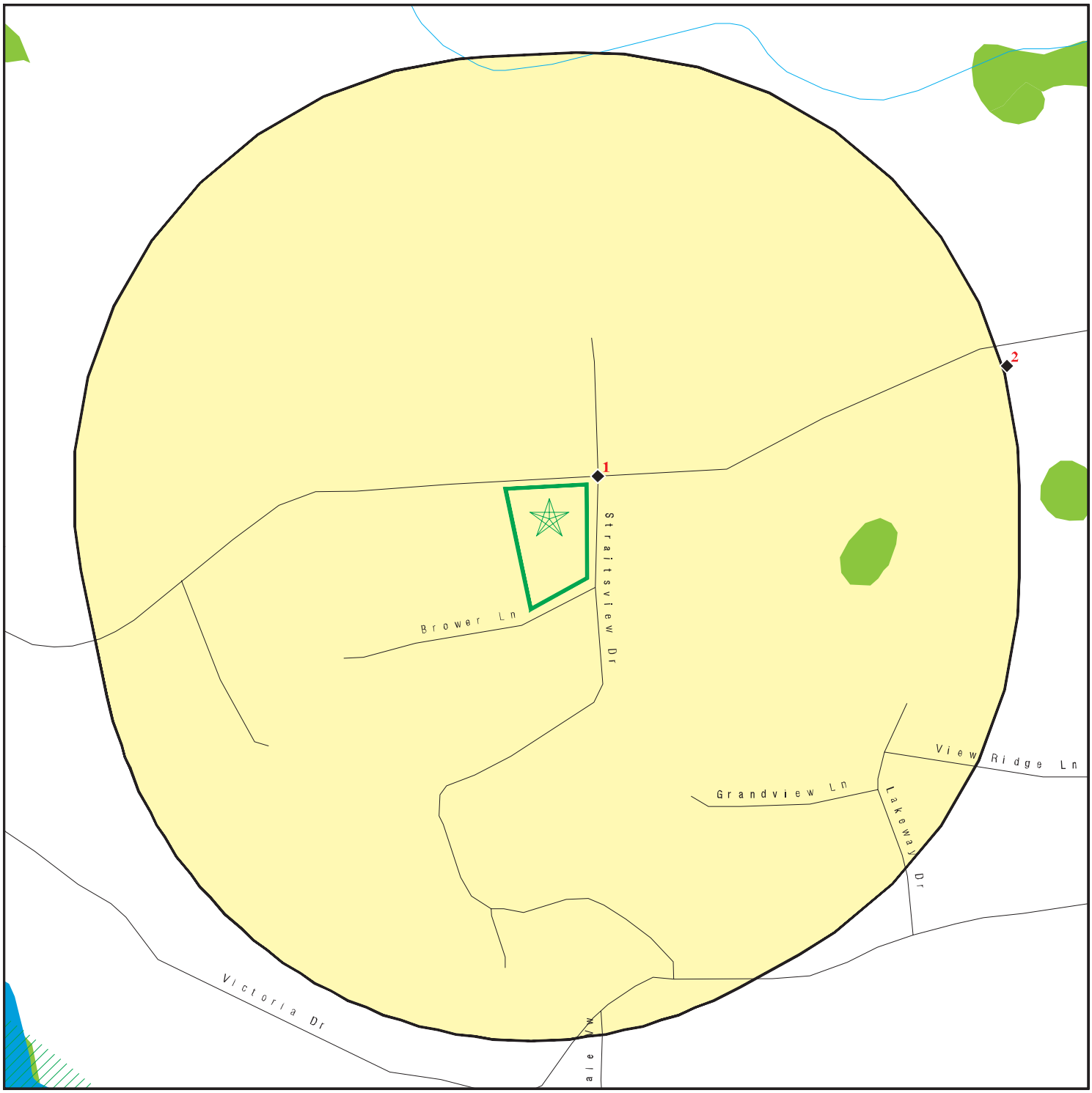
National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Bailer Hill Road	CLIENT:	GeoEngineers, Inc.
ADDRESS:	3189 Bailer Hill Rd Friday Harbor WA 98250	CONTACT:	Matthew Mcgavick
LAT/LONG:	48.497283 / 123.113178	INQUIRY #:	7672622.2s
		DATE:	June 05, 2024 12:42 pm

DETAIL MAP - 7672622.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bailer Hill Road	CLIENT: GeoEngineers, Inc.
ADDRESS: 3189 Bailer Hill Rd Friday Harbor WA 98250	CONTACT: Matthew Mcgavick
LAT/LONG: 48.497283 / 123.113178	INQUIRY #: 7672622.2s DATE: June 05, 2024 12:44 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
HSL	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
CSCSL	1.000		1	0	0	0	NR	1
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
ICR	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		1	0	0	NR	NR	1
PTAP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
ALLSITES	0.500		1	0	2	NR	NR	3
CDL	0.001		0	NR	NR	NR	NR	0
HIST CDL	0.001		0	NR	NR	NR	NR	0
CSCSL NFA	0.500		0	0	0	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		1	0	NR	NR	NR	1
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	4	0	2	0	0	6

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NE
< 1/8
0.008 mi.
42 ft.

BAILER HILL AREA PFAS
BAILER HILL RD & STRAITS VIEW DR
FRIDAY HARBOR, WA 98250

CSCSL
VCP
ALLSITES
PFAS

S131495492
N/A

Relative:
Lower

Actual:
203 ft.

CSCSL:

Name:	BAILER HILL AREA PFAS
Address:	BAILER HILL RD & STRAITS VIEW DR
City,State,Zip:	FRIDAY HARBOR, WA 98250
Facility ID:	100000405
Region:	Northwest
Lat/Long:	48.497306212193 / -123.1130139808
Clean Up Siteid:	16911
Site Status:	Awaiting Cleanup
Contaminant Name:	Per- and polyfluoroalkyl substances (PFAS)
Alternate Site Names:	Not reported
Site Rank:	Not reported
Has Institutional Control:	Not reported
Past VCP:	Not reported
Current VCP:	Not reported
URL:	https://apps.ecology.wa.gov/cleanupsearch/site/16911
Ground Water:	Confirmed Above Cleanup Levels
Surface Water:	Not reported
Soil:	Suspected
Sediment:	Not reported
Air:	Not reported
Bedrock:	Not reported
Responsible Unit:	Northwest

VCP:

Name:	BAILER HILL AREA PFAS
Address:	BAILER HILL RD & STRAITS VIEW DR
City,State,Zip:	FRIDAY HARBOR, WA 98250
edr_fstat:	WA
edr_fzip:	98250
edr_fcnty:	SAN JUAN
edr_zip:	Not reported
Facility ID:	100000405
VCP Status:	Awaiting Cleanup
Past VCP:	Not reported
Current VCP:	Not reported
NFA Type:	Not reported
Date NFA:	Not reported
Rank:	Not reported
Cleanup Siteid:	16911
Contaminant Name:	Not reported
Soil:	Not reported
URL:	https://apps.ecology.wa.gov/cleanupsearch/site/16911

ALLSITES:

Facility ID:	100000405
Name:	BAILER HILL AREA PFAS
Address:	BAILER HILL RD & STRAITS VIEW DR
Address 2:	Not reported
City,State,Zip:	FRIDAY HARBOR, WA 98250
Program System Name:	ISIS
Substance:	TOXICS

BAILER HILL AREA PFAS (Continued) **S131495492**

Status Code:	A
Start Date:	04/27/2023
End Date:	Not reported
WRIA Number:	2
Legislative District:	40
Congressional District:	2
Tribal Land:	N
Region Code:	NWRO
Horizon ACC:	Not reported
Alternate Name:	Not reported
SIC Codes:	Not reported
SIC Description:	Not reported
NACIS Code:	99999
NACIS Description:	Nonclassifiable Establishment
Contact Phone:	(360) 407-7224
Contact Email:	Not reported
Ecology Interest Type Code:	SCS
Ecology Interest Type Description:	State Cleanup Site
Latitude:	48.4973062
Longitude:	-123.11301

Facility ID:	100000405
Name:	BAILER HILL AREA PFAS
Address:	BAILER HILL RD & STRAITS VIEW DR
Address 2:	Not reported
City,State,Zip:	FRIDAY HARBOR, WA 98250
Program System Name:	ISIS
Substance:	TOXICS
Status Code:	A
Start Date:	04/27/2023
End Date:	Not reported
WRIA Number:	2
Legislative District:	40
Congressional District:	2
Tribal Land:	N
Region Code:	NWRO
Horizon ACC:	Not reported
Alternate Name:	Not reported
SIC Codes:	Not reported
SIC Description:	Not reported
NACIS Code:	Not reported
NACIS Description:	Not reported
Contact Phone:	(360) 407-7224
Contact Email:	Not reported
Ecology Interest Type Code:	SCS
Ecology Interest Type Description:	State Cleanup Site
Latitude:	48.4973062
Longitude:	-123.11301

PFAS:

Name:	BAILER HILL AREA PFAS
Address:	BAILER HILL RD & STRAITS VIEW DR
City,State,Zip:	FRIDAY HARBOR, WA 98250
FSID:	100000405
Suspected Source of Contamination:	Not reported
File Name:	PFAS
Cleanup Site ID:	16911

BAILER HILL AREA PFAS (Continued) **S131495492**

Alternate Site Names:	Not reported
Site Status:	Awaiting Cleanup
Site Rank:	Not reported
Region:	Northwest
Responsible Unit:	Northwest
Latitude:	48.4973062121934
Longitude:	-123.113013980894
Database Creation Date:	10/18/2023
Has Institutional Control:	Not reported
Past VCP:	Not reported
Current VCP:	Not reported
Initial Report Location Name:	Not reported
Initial Report City:	Not reported
Initial Report County:	Not reported
Initial Report State:	Not reported
Initial Report Physical Address:	Not reported
Initial Report Zip:	Not reported
Initial Report Region:	Not reported
Initial Report Reported Date:	Not reported
Initial Report Activities:	Not reported
Initial Report Causes:	Not reported
Initial Report Sources:	Not reported
Initial Report Substances:	Not reported
Reporter Name:	Not reported
Reporter Organization Name:	Not reported
External Reference Number:	Not reported
Responsible Party Name:	Not reported
Responsible Party Organization Name:	Not reported
Incident Date:	Not reported
FollowUp Program:	Not reported
FollowUp Subject:	Not reported
FollowUp Impact:	Not reported
FollowUp Action Status:	Not reported
FollowUp Action Taken:	Not reported
FollowUp Action Date:	Not reported
FollowUp Owner Status:	Not reported
FollowUp Owner Name:	Not reported
FollowUp Owner Organization:	Not reported
Attachments:	Not reported

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2 **SAN JUAN LANDSCAPING & MAINTENANCE** **ALLSITES** **S109824590**
ENE **2901 BAILER HILL RD** **N/A**
1/4-1/2 **FRIDAY HARBOR, WA 98250**
0.252 mi.
1333 ft.

Relative: **Lower**

Actual: **167 ft.**

ALLSITES:

Facility ID:	22312
Name:	SAN JUAN LANDSCAPING & MAINTENANCE
Address:	2901 BAILER HILL RD
Address 2:	Not reported
City,State,Zip:	FRIDAY HARBOR, WA 98250
Program System Name:	LSC
Substance:	HAZWASTE
Status Code:	I
Start Date:	03/06/2009
End Date:	04/29/2010
WRIA Number:	2

SAN JUAN LANDSCAPING & MAINTENANCE (Continued) **S109824590**

Legislative District:	40
Congressional District:	2
Tribal Land:	N
Region Code:	NWRO
Horizon ACC:	Not reported
Alternate Name:	Not reported
SIC Codes:	Not reported
SIC Description:	Not reported
NACIS Code:	Not reported
NACIS Description:	Not reported
Contact Phone:	(509) 239-3503
Contact Email:	Not reported
Ecology Interest Type Code:	LSC
Ecology Interest Type Description:	Local Source Cntrl 7/09-3/12
Latitude:	48.498468
Longitude:	-123.10742

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3 **SCRIPPS RESIDENTIAL DESAL** **ALLSITES** **S126109810**
SE **535 MACGINITIE ROAD** **UIC** **N/A**
1/4-1/2 **FRIDAY HARBOR, WA 98250**
0.446 mi.
2353 ft.

Relative:
Lower

Actual:
55 ft.

ALLSITES:

Facility ID:	64644
Name:	SCRIPPS RESIDENTIAL DESAL
Address:	535 MACGINITIE ROAD
Address 2:	Not reported
City,State,Zip:	FRIDAY HARBOR, WA 98250
Program System Name:	UIC
Substance:	WATQUAL
Status Code:	A
Start Date:	05/04/2020
End Date:	Not reported
WRIA Number:	2
Legislative District:	40
Congressional District:	2
Tribal Land:	N
Region Code:	NWRO
Horizon ACC:	Not reported
Alternate Name:	Not reported
SIC Codes:	Not reported
SIC Description:	Not reported
NACIS Code:	Not reported
NACIS Description:	Not reported
Contact Phone:	(360) 407-6400
Contact Email:	Not reported
Ecology Interest Type Code:	UIC
Ecology Interest Type Description:	Underground Injection Control
Latitude:	48.491267
Longitude:	-123.10597

UIC:

Name:	SCRIPPS RESIDENTIAL DESAL
Address:	535 MACGINITIE ROAD
City,State,Zip:	FRIDAY HARBOR, WA 98250
Site Number:	34967

SCRIPPS RESIDENTIAL DESAL (Continued) **S126109810**

Owner Name:	Edward Scripps
Well Status:	Active
EPA Well Type:	5X
Latitude:	48.4912670
Longitude:	-123.10597
Well Name:	Scipps Residential Desal
Registration Type:	Automatically Meet the Nonendangerment Standard
Construction Date:	05/04/2020
Construction Type:	Not reported
Depth:	35

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/26/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

HSL: Hazardous Sites List

The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM). As of 2024 this data is no loinger being updated.

Date of Government Version: 08/24/2023
Date Data Arrived at EDR: 08/31/2023
Date Made Active in Reports: 11/09/2023
Number of Days to Update: 70

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: No Update Planned

Lists of state- and tribal hazardous waste facilities

CSCSL: Confirmed and Suspected Contaminated Sites List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facility Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/28/2024
Date Data Arrived at EDR: 02/29/2024
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 19

Source: Department of Ecology
Telephone: 360-407-6132
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tanks Site List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 05/01/2024
Number of Days to Update: 83

Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 11/16/2023
Date Data Arrived at EDR: 11/16/2023
Date Made Active in Reports: 02/13/2024
Number of Days to Update: 89
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

UST SEATTLE: Underground Storage Tank (UST) Records ? Residential Listing
Records of Seattle Fire Department (SFD) permits related to decommissioning of a residential heating oil tank, permit code 6103. A record with incomplete tank info indicates that the required follow-up report has not been received by SFD. Please note that SFD records begin in 1996 when state requirement was introduced. Decommissioning of a residential heating oil tank might have occurred prior to 1996, in which SFD will not have a record.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 05/01/2024
Number of Days to Update: 83
Source: Seattle Fire Department
Telephone: 206-386-1450
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 05/01/2024
Number of Days to Update: 83
Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Locations
A listing of aboveground storage tank locations regulated by the Department of Ecology's Spill Prevention, Preparedness and Response Program.

Date of Government Version: 12/14/2015
Date Data Arrived at EDR: 02/02/2016
Date Made Active in Reports: 05/03/2016
Number of Days to Update: 91
Source: Department of Ecology
Telephone: 360-407-7562
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Control Site List

The Environmental Covenants Registry is a list of sites that have implemented institutional controls as part of the remedy. 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, such as: Drilling a water supply well on the property. Disturbing pavement covering contaminated areas. Residential use of the property.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 83

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

ICR: Independent Cleanup Reports

These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree. This database is no longer updated by the Department of Ecology.

Date of Government Version: 12/01/2002
Date Data Arrived at EDR: 01/03/2003
Date Made Active in Reports: 01/22/2003
Number of Days to Update: 19

Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: No Update Planned

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/18/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Varies

PTAP: PTAP Site Listing
A list of sites accepted into the Petroleum Technical Assistance Program. The Petroleum Technical Assistance Program (PTAP) expands the state's ability to respond to the high customer demand to clean up petroleum contaminated sites. Under the PTAP, the Pollution Liability Insurance Agency (PLIA) may provide informal site-specific technical consultations and issue written opinion letters to persons conducting independent remedial actions at qualifying petroleum cleanup sites. PLIA may provide these services under the authority of RCW 70.149.040(9) and the Model Toxics Control Act (MTCA), Chapter 70.149 RCW and Chapter 173-340 WAC.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 05/01/2024
Number of Days to Update: 83
Source: Department of Ecology
Telephone: 360-407-0515
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Sites Listing
A listing of brownfields sites included in the Confirmed & Suspected Sites Listing. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82
Source: Department of Ecology
Telephone: 360-725-4030
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 05/10/2024
Number of Days to Update: 59
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/12/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE 2: Solid Waste Tire Facilities 2
solid waste tire piles

Date of Government Version: 03/08/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 04/18/2024
Number of Days to Update: 37

Source: Department of Ecology
Telephone: 425-649-7104
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

SWRCY: Recycling Facility List
A llisting of recycling center locations.

Date of Government Version: 01/25/2024
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 02/14/2024
Number of Days to Update: 19

Source: Department of Ecology
Telephone: 360-407-6105
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

SWTIRE: Solid Waste Tire Facilities
This study identified sites statewide with unauthorized accumulations of scrap tires.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 03/16/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 28

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 09/08/2017
Next Scheduled EDR Contact: 12/18/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/19/2024
Next Scheduled EDR Contact: 08/04/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

ALLSITES: Facility/Site Identification System Listing

Information on facilities and sites of interest to the Department of Ecology.

Date of Government Version: 01/23/2024
Date Data Arrived at EDR: 01/24/2024
Date Made Active in Reports: 04/11/2024
Number of Days to Update: 78

Source: Department of Ecology
Telephone: 360-407-6423
Last EDR Contact: 04/24/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Contaminated Site List

Illegal methamphetamine labs use hazardous chemicals that create public health hazards. Chemicals and residues can cause burns, respiratory and neurological damage, and death. Biological hazards associated with intravenous needles, feces, and blood also pose health risks.

Date of Government Version: 09/26/2023
Date Data Arrived at EDR: 10/27/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 5

Source: Department of Health
Telephone: 360-236-3380
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

HIST CDL: List of Sites Contaminated by Clandestine Drug Labs

This listing of contaminated sites by Clandestine Drug Labs includes non-remediated properties. The current CDL listing does not. This listing is no longer updated by the state agency.

Date of Government Version: 02/08/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/19/2007
Number of Days to Update: 23

Source: Department of Health
Telephone: 360-236-3381
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action

This report contains information about sites that are undergoing cleanup and sites that are awaiting further investigation and/or cleanup. Sites on the Hazardous Sites List (see above) are included in this data set.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/20/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

SPILLS ERTS: Environmental Report Tracking System Listing

All programs in Ecology use the ERTS System for any Incidents regardless of the ?type? of incident. The programs include; Spills, Hazardous Waste, Water Quality, Air Quality, Toxics Cleanup, Water Resources, etc.

Date of Government Version: 12/12/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 03/11/2024
Number of Days to Update: 89

Source: Department of Ecology
Telephone: 360-407-7455
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

SPILLS: Reported Spills

Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 05/08/2024
Date Data Arrived at EDR: 05/16/2024
Date Made Active in Reports: 05/23/2024
Number of Days to Update: 7

Source: Department of Ecology
Telephone: 360-407-6950
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 05/23/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/06/2013
Number of Days to Update: 62

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/11/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/09/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/11/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/13/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/29/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/14/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/16/2024
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 70

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/17/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/15/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/02/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/25/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/23/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/28/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/19/2024
Next Scheduled EDR Contact: 07/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/26/2024
Next Scheduled EDR Contact: 08/12/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/16/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 02/29/2024
Date Data Arrived at EDR: 03/01/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 07/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 43

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/21/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/23/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory 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.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 12

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 05/30/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 05/29/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/17/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/04/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/12/2024
Date Data Arrived at EDR: 02/13/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 51

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing 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.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

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. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

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 VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/22/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a 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. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less 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. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 03/04/2024
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/05/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data
The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing
PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

Date of Government Version: 12/27/2023
Date Data Arrived at EDR: 12/27/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 83

Source: Department of Ecology
Telephone: 360-407-6116
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Firefighting Foam Incidents
Aqueous film-forming foam-laced water running off from fuel spills, firefighting events and routine training sessions has put those chemicals in ground water, surface water, sediments, biota, and other natural resources of the state.

Date of Government Version: 12/27/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 03/22/2024
Number of Days to Update: 79

Source: Department of Ecology
Telephone: 360-407-6116
Last EDR Contact: 03/29/2024
Next Scheduled EDR Contact: 07/15/2024
Data Release Frequency: Varies

AIRS (EMI): Washington Emissions Data System
Emissions inventory data.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 04/12/2023
Date Made Active in Reports: 07/05/2023
Number of Days to Update: 84

Source: Department of Ecology
Telephone: 360-407-6040
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing
Asbestos sites

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 04/03/2024
Number of Days to Update: 13

Source: Department of Labor & Industries
Telephone: 360-902-6209
Last EDR Contact: 05/13/2024
Next Scheduled EDR Contact: 08/26/2024
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 08/29/2023
Date Data Arrived at EDR: 08/31/2023
Date Made Active in Reports: 11/16/2023
Number of Days to Update: 77

Source: Department of Ecology
Telephone: 360-407-6933
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner List
A listing of registered drycleaners who registered with the Department of Ecology (using the SIC code of 7215 and 7216) as hazardous waste generators.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 10/23/2023
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 05/23/2024
Date Made Active in Reports: 05/28/2024
Number of Days to Update: 5

Source: Department of Ecology
Telephone: 360-586-1060
Last EDR Contact: 05/17/2024
Next Scheduled EDR Contact: 09/02/2024
Data Release Frequency: No Update Planned

FIN ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/22/2024
Date Data Arrived at EDR: 02/22/2024
Date Made Active in Reports: 03/11/2024
Number of Days to Update: 18

Source: Department of Ecology
Telephone: 360-407-6754
Last EDR Contact: 05/03/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

FIN ASSURANCE 3: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/27/2024
Date Data Arrived at EDR: 02/29/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 47

Source: Department of Ecology
Telephone: 360-407-6136
Last EDR Contact: 05/03/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

INACTIVE DRYCLEANERS: Inactive Drycleaners
A listing of inactive drycleaner facility locations.

Date of Government Version: 01/09/2024
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 04/02/2024
Number of Days to Update: 82

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Annually

WA MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 08/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 104

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: Annually

NPDES: Water Quality Permit System Data
A listing of permitted wastewater facilities.

Date of Government Version: 10/09/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/05/2024
Number of Days to Update: 86

Source: Department of Ecology
Telephone: 360-407-6073
Last EDR Contact: 04/10/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Listing
A listing of underground injection wells.

Date of Government Version: 01/23/2024
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/11/2024
Number of Days to Update: 76

Source: Department of Ecology
Telephone: 360-407-6143
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Quarterly

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

KING COUNTY:

LF KING: Abandoned Landfill Study in King County

The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department's Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/1985
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE COUNTY:

LF SEATTLE CITY: Abandoned Landfill Study in the City of Seattle

The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department's Environmental Health Division at the request of the Mayor's Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/1984
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: Seattle - King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SEATTLE/KING COUNTY:

LF SEATTLE/KING: Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project
This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/1986
Date Data Arrived at EDR: 08/18/1995
Date Made Active in Reports: 09/20/1995
Number of Days to Update: 33

Source: Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 08/14/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SNOHOMISH COUNTY:

LF SNOHOMISH: Solid Waste Sites of Record at Snohomish Health District
Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 29

Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 03/08/2024
Next Scheduled EDR Contact: 06/24/2024
Data Release Frequency: No Update Planned

TACOMA/PIERCE COUNTY:

LF TACOMA/PIERCE: Closed Landfill Survey
Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.

Date of Government Version: 09/01/2002
Date Data Arrived at EDR: 03/24/2003
Date Made Active in Reports: 05/14/2003
Number of Days to Update: 51

Source: Tacoma-Pierce County Health Department
Telephone: 206-591-6500
Last EDR Contact: 03/19/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/06/2024
Date Made Active in Reports: 04/25/2024
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/07/2024
Next Scheduled EDR Contact: 08/19/2024
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/25/2024
Next Scheduled EDR Contact: 08/05/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/08/2024
Next Scheduled EDR Contact: 07/22/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Daycare Center Listing
Source: Department of Social & Health Services
Telephone: 253-383-1735

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BAILER HILL ROAD
3189 BAILER HILL RD
FRIDAY HARBOR, WA 98250

TARGET PROPERTY COORDINATES

Latitude (North):	48.497283 - 48° 29' 50.22''
Longitude (West):	123.113178 - 123° 6' 47.44''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	491638.6
UTM Y (Meters):	5371361.0
Elevation:	206 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14718167 FALSE BAY, WA
Version Date:	2020
Northeast Map:	14718169 FRIDAY HARBOR, WA
Version Date:	2020
Southwest Map:	14718181 ROCHE HARBOR OE S, WA
Version Date:	2020
Northwest Map:	14718179 ROCHE HARBOR, WA
Version Date:	2020

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

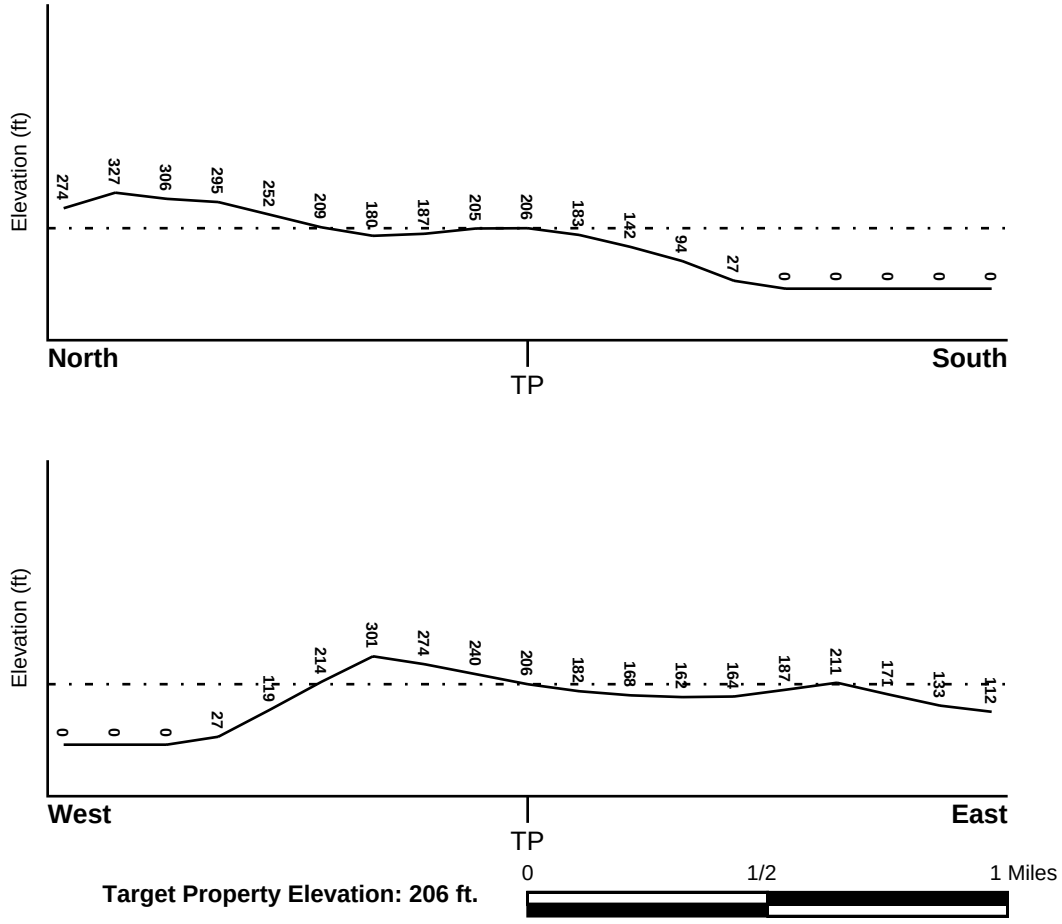
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 206 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
5301490005B	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
FALSE BAY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

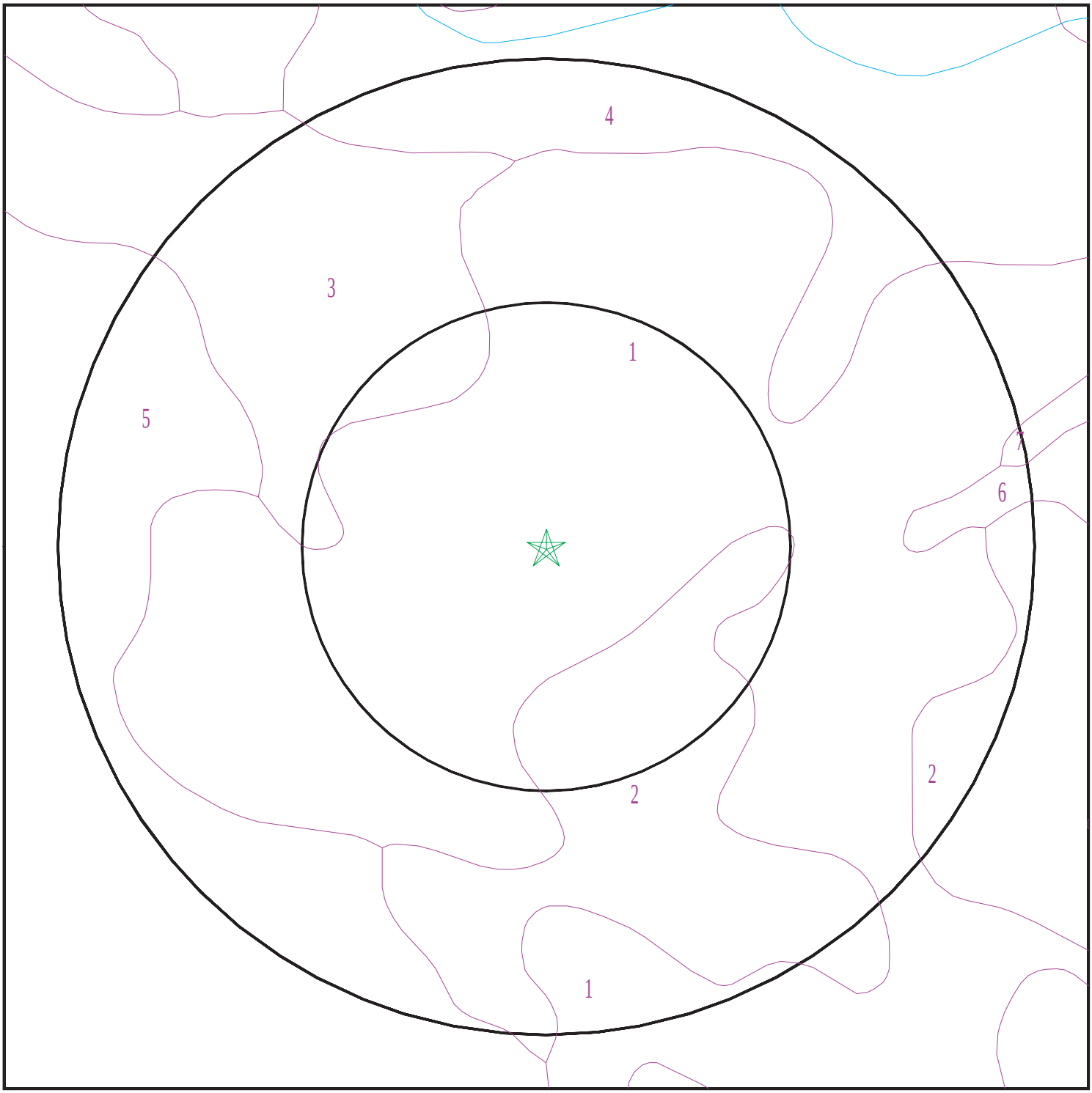
Era:	Mesozoic
System:	Lower Jurassic and Upper Triassic
Series:	Lower Mesozoic
Code:	lMze *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7672622.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Bailer Hill Road	CLIENT:	GeoEngineers, Inc.
ADDRESS:	3189 Bailer Hill Rd Friday Harbor WA 98250	CONTACT:	Matthew Mcgavick
LAT/LONG:	48.497283 / 123.113178	INQUIRY #:	7672622.2s
		DATE:	June 05, 2024 12:45 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: San Juan

Soil Surface Texture: gravelly sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
2	7 inches	20 inches	gravelly loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
3	20 inches	24 inches	gravelly clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	24 inches	59 inches	gravelly sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

Soil Map ID: 2

Soil Component Name: Roche

Soil Surface Texture: gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
2	9 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	16 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
4	24 inches	59 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

Soil Map ID: 3

Soil Component Name: Roche

Soil Surface Texture: gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	5 inches	20 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
3	20 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
4	40 inches	59 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

Soil Map ID: 4

Soil Component Name: Bow

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
2	9 inches	14 inches	gravelly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	14 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
4	29 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6

Soil Map ID: 5

Soil Component Name: Rock land

Soil Surface Texture: unweathered bedrock

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	unweathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: Bellingham

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.1
2	7 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 7

Soil Component Name: Roche

Soil Surface Texture: gravelly loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
2	9 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
3	16 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1
4	24 inches	59 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: 0.42 Min: 0.01	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C14	USGS40001289823	1/8 - 1/4 Mile WSW
44	USGS40001289802	1/4 - 1/2 Mile SSW
K56	USGS40001289801	1/4 - 1/2 Mile SE
K57	USGS40001289800	1/4 - 1/2 Mile SE
79	USGS40001289788	1/2 - 1 Mile SE
O80	USGS40001289857	1/2 - 1 Mile ENE
102	USGS40001289792	1/2 - 1 Mile ESE
V113	USGS40001289809	1/2 - 1 Mile ESE
AE176	USGS40001289949	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	WA1300000022709	0 - 1/8 Mile SSE
A2	WALOG3000637978	0 - 1/8 Mile North
A3	WALOG3000393455	0 - 1/8 Mile North
A4	WALOG3000393230	0 - 1/8 Mile North
B5	WALOG3000116627	1/8 - 1/4 Mile ESE
C6	WA1300000022708	1/8 - 1/4 Mile WSW
D7	WALOG3000138037	1/8 - 1/4 Mile South
D8	WALOG3000138143	1/8 - 1/4 Mile South
D9	WALOG3000136974	1/8 - 1/4 Mile South
D10	WALOG3000115320	1/8 - 1/4 Mile South
D11	WALOG3000115820	1/8 - 1/4 Mile South
D12	WALOG3000961885	1/8 - 1/4 Mile South

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B13	WA1300000024888	1/8 - 1/4 Mile SE
E15	WALOG3000962498	1/8 - 1/4 Mile NNW
E16	WALOG3000112720	1/8 - 1/4 Mile NNW
F17	WALOG3000551516	1/4 - 1/2 Mile WNW
F18	WALOG3000534075	1/4 - 1/2 Mile WNW
F19	WALOG3000123412	1/4 - 1/2 Mile WNW
F20	WALOG3000111583	1/4 - 1/2 Mile WNW
F21	WALOG3000138795	1/4 - 1/2 Mile WNW
F22	WALOG3000393425	1/4 - 1/2 Mile WNW
F23	WALOG3000356790	1/4 - 1/2 Mile WNW
24	WA1300000022283	1/4 - 1/2 Mile WSW
G25	WALOG3000809982	1/4 - 1/2 Mile ENE
G26	WALOG3000115524	1/4 - 1/2 Mile ENE
G27	WALOG3000124581	1/4 - 1/2 Mile ENE
G28	WALOG3000497106	1/4 - 1/2 Mile ENE
G29	WALOG3000116720	1/4 - 1/2 Mile ENE
G30	WALOG3000116626	1/4 - 1/2 Mile ENE
31	WA1300000002396	1/4 - 1/2 Mile SSE
32	WA1300000022710	1/4 - 1/2 Mile East
H33	WA1300000015732	1/4 - 1/2 Mile SW
H34	WALOG3000115569	1/4 - 1/2 Mile SW
H35	WALOG3000115822	1/4 - 1/2 Mile SW
H36	WALOG3000132299	1/4 - 1/2 Mile SW
H37	WALOG3000115823	1/4 - 1/2 Mile SW
H38	WALOG3000138109	1/4 - 1/2 Mile SW
H39	WALOG3000137548	1/4 - 1/2 Mile SW
H40	WALOG3000493936	1/4 - 1/2 Mile SW
H41	WALOG3000393638	1/4 - 1/2 Mile SW
H42	WALOG3000646186	1/4 - 1/2 Mile SW
H43	WALOG3000529451	1/4 - 1/2 Mile SW
I45	WALOG3000136593	1/4 - 1/2 Mile SE
I46	WALOG3000116628	1/4 - 1/2 Mile SE
I47	WALOG3000393424	1/4 - 1/2 Mile SE
I48	WALOG3000393462	1/4 - 1/2 Mile SE
I49	WALOG3000393461	1/4 - 1/2 Mile SE
I50	WALOG3000111952	1/4 - 1/2 Mile SE
I51	WALOG3000565651	1/4 - 1/2 Mile SE
52	WALOG3000116456	1/4 - 1/2 Mile North
53	WALOG3000111676	1/4 - 1/2 Mile NW
J54	WALOG3000190423	1/4 - 1/2 Mile NE
J55	WALOG3000136920	1/4 - 1/2 Mile NE
L58	WALOG3000115824	1/4 - 1/2 Mile SSW
L59	WALOG3000115825	1/4 - 1/2 Mile SSW
M60	WALOG3000620436	1/2 - 1 Mile West
M61	WALOG3000575389	1/2 - 1 Mile West
M62	WALOG3000115821	1/2 - 1 Mile West
M63	WALOG3000116461	1/2 - 1 Mile West
M64	WALOG3000122720	1/2 - 1 Mile West
M65	WALOG3000114611	1/2 - 1 Mile West
M66	WALOG3000115817	1/2 - 1 Mile West
M67	WALOG3000115818	1/2 - 1 Mile West
M68	WALOG3000409610	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

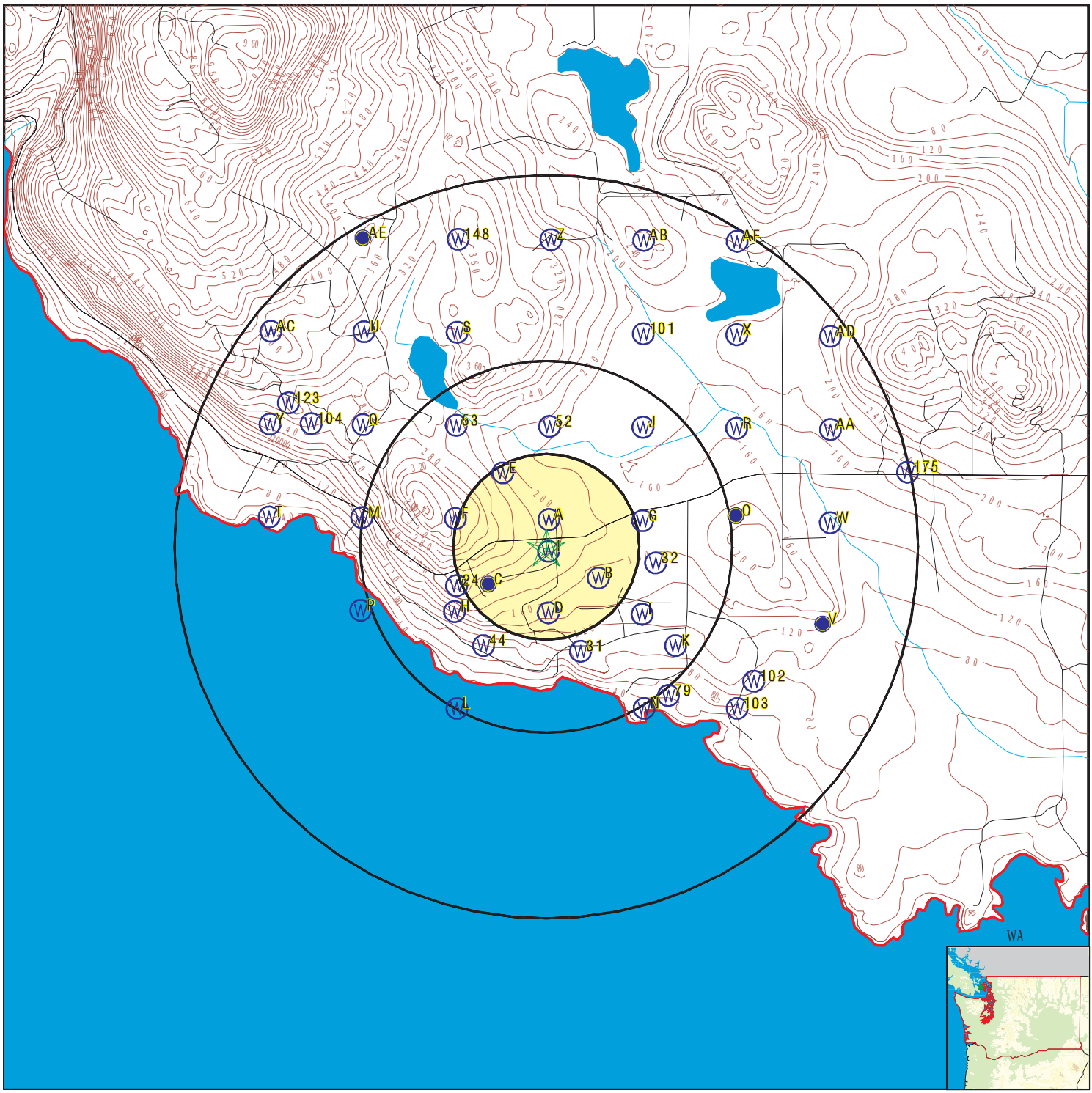
MAP ID	WELL ID	LOCATION FROM TP
M69	WALOG3000423837	1/2 - 1 Mile West
M70	WALOG3000485236	1/2 - 1 Mile West
M71	WALOG3000138796	1/2 - 1 Mile West
M72	WALOG3000356791	1/2 - 1 Mile West
M73	WALOG3000393235	1/2 - 1 Mile West
N74	WALOG3000114206	1/2 - 1 Mile SSE
N75	WALOG3000136949	1/2 - 1 Mile SSE
N76	WALOG3000136950	1/2 - 1 Mile SSE
O77	WALOG3000710516	1/2 - 1 Mile East
O78	WALOG3000114208	1/2 - 1 Mile East
P81	WALOG3000356792	1/2 - 1 Mile WSW
P82	WALOG3000131003	1/2 - 1 Mile WSW
P83	WALOG3000406952	1/2 - 1 Mile WSW
Q84	WALOG3000710990	1/2 - 1 Mile WNW
Q85	WALOG3000718345	1/2 - 1 Mile WNW
Q86	WALOG3000710989	1/2 - 1 Mile WNW
Q87	WALOG3000133040	1/2 - 1 Mile WNW
Q88	WALOG3000443243	1/2 - 1 Mile WNW
Q89	WALOG3000493916	1/2 - 1 Mile WNW
Q90	WALOG3000112275	1/2 - 1 Mile WNW
Q91	WALOG3000113018	1/2 - 1 Mile WNW
Q92	WALOG3000113159	1/2 - 1 Mile WNW
R93	WALOG3000962481	1/2 - 1 Mile ENE
R94	WALOG3000132399	1/2 - 1 Mile ENE
R95	WALOG3000138032	1/2 - 1 Mile ENE
R96	WALOG3000131928	1/2 - 1 Mile ENE
R97	WALOG3000114398	1/2 - 1 Mile ENE
S98	WALOG3000553048	1/2 - 1 Mile NNW
S99	WALOG3000678198	1/2 - 1 Mile NNW
S100	WALOG3000124932	1/2 - 1 Mile NNW
101	WALOG3000114699	1/2 - 1 Mile NNE
103	WALOG3000494869	1/2 - 1 Mile SE
104	WA1300000018886	1/2 - 1 Mile WNW
T105	WALOG3000194537	1/2 - 1 Mile West
T106	WALOG3000494873	1/2 - 1 Mile West
T107	WALOG3000123263	1/2 - 1 Mile West
T108	WALOG3000137713	1/2 - 1 Mile West
U109	WALOG3000637979	1/2 - 1 Mile NW
U110	WALOG3000637980	1/2 - 1 Mile NW
U111	WALOG3000714268	1/2 - 1 Mile NW
U112	WALOG3000427872	1/2 - 1 Mile NW
W114	WALOG3000393443	1/2 - 1 Mile East
W115	WALOG3000111611	1/2 - 1 Mile East
W116	WALOG3000112874	1/2 - 1 Mile East
X117	WALOG3000849888	1/2 - 1 Mile NE
X118	WALOG3000809529	1/2 - 1 Mile NE
X119	WALOG3000308658	1/2 - 1 Mile NE
X120	WALOG3000137526	1/2 - 1 Mile NE
X121	WALOG3000267363	1/2 - 1 Mile NE
V122	WALOG3000115739	1/2 - 1 Mile ESE
123	WA1300000018967	1/2 - 1 Mile WNW
Y124	WA1300000018966	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
Y125	WALOG3000625148	1/2 - 1 Mile WNW
Y126	WALOG3000643511	1/2 - 1 Mile WNW
Y127	WALOG3000123261	1/2 - 1 Mile WNW
Y128	WALOG3000111692	1/2 - 1 Mile WNW
Y129	WALOG3000111690	1/2 - 1 Mile WNW
Y130	WALOG3000123262	1/2 - 1 Mile WNW
Y131	WALOG3000423775	1/2 - 1 Mile WNW
Y132	WALOG3000133042	1/2 - 1 Mile WNW
Y133	WALOG3000131817	1/2 - 1 Mile WNW
Z134	WALOG3000393216	1/2 - 1 Mile North
Z135	WALOG3000393217	1/2 - 1 Mile North
Z136	WALOG3000137448	1/2 - 1 Mile North
Z137	WALOG3000111537	1/2 - 1 Mile North
Z138	WALOG3000114698	1/2 - 1 Mile North
AA139	WALOG3000827239	1/2 - 1 Mile ENE
AA140	WALOG3000777431	1/2 - 1 Mile ENE
AA141	WALOG3000139492	1/2 - 1 Mile ENE
AA142	WALOG3000131523	1/2 - 1 Mile ENE
AA143	WALOG3000113157	1/2 - 1 Mile ENE
AA144	WALOG3000115956	1/2 - 1 Mile ENE
AA145	WALOG3000423836	1/2 - 1 Mile ENE
AA146	WALOG3000115305	1/2 - 1 Mile ENE
AA147	WALOG3000393696	1/2 - 1 Mile ENE
148	WALOG3000566746	1/2 - 1 Mile NNW
AB149	WALOG3000122891	1/2 - 1 Mile NNE
AB150	WALOG3000124086	1/2 - 1 Mile NNE
AB151	WALOG3000464934	1/2 - 1 Mile NNE
AB152	WALOG3000340397	1/2 - 1 Mile NNE
AC153	WALOG3000510146	1/2 - 1 Mile NW
AC154	WALOG3001044530	1/2 - 1 Mile NW
AC155	WALOG3000138509	1/2 - 1 Mile NW
AC156	WALOG3000133041	1/2 - 1 Mile NW
AC157	WALOG3000393423	1/2 - 1 Mile NW
AC158	WALOG3000393422	1/2 - 1 Mile NW
AC159	WALOG3000130709	1/2 - 1 Mile NW
AC160	WALOG3000122285	1/2 - 1 Mile NW
AC161	WALOG3000131402	1/2 - 1 Mile NW
AC162	WALOG3000131294	1/2 - 1 Mile NW
AD163	WALOG3000627392	1/2 - 1 Mile NE
AD164	WALOG3000393735	1/2 - 1 Mile NE
AE165	WALOG3000523788	1/2 - 1 Mile NNW
AE166	WALOG3000626741	1/2 - 1 Mile NNW
AE167	WALOG3000114790	1/2 - 1 Mile NNW
AE168	WALOG3000138261	1/2 - 1 Mile NNW
AE169	WALOG3000124088	1/2 - 1 Mile NNW
AF170	WALOG3000961867	1/2 - 1 Mile NNE
AF171	WALOG3000124645	1/2 - 1 Mile NNE
AF172	WALOG3000112352	1/2 - 1 Mile NNE
AF173	WALOG3000130648	1/2 - 1 Mile NNE
AF174	WALOG3000138718	1/2 - 1 Mile NNE
175	WA1300000009358	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 7672622.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Bailer Hill Road	CLIENT:	GeoEngineers, Inc.
ADDRESS:	3189 Bailer Hill Rd Friday Harbor WA 98250	CONTACT:	Matthew Mcgavick
		INQUIRY #:	7672622.2s
LAT/LONG:	48.497283 / 123.113178	DATE:	June 05, 2024 12:45 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE
0 - 1/8 Mile
Lower

WA WELLS **WA1300000022709**

WELLS - PWS:

PWS ID:	30850	Source #:	02
Source Name:	AFL658 WELL 2	Source Status:	Active
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	01/01/1970	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	183
Source Susceptibility:	H	System Name:	HANNAH HEIGHTS OWNERS ASSOCIATIO
Public Water System Group:	A	System Type:	Comm
Full Time Res Pop:	50	Total Population Served:	66
Total Connections:	44	PWS Status:	Active
Residential Connection:	43	DOE Well Tag:	Not Reported
Capacity (gpm):	11	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

A2
North
0 - 1/8 Mile
Higher

WA WELLS **WALOG3000637978**

WELLS WELL LOG:

Well Log ID:	432861	Well Tag #:	APR101
Project Tag #:	Not Reported	Notice of Intent #:	W219763
Date Received:	07-MAR-06	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	07-FEB-06
Well Owner:	PAUL STOKES	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

A3
North
0 - 1/8 Mile
Higher

WA WELLS **WALOG3000393455**

WELLS WELL LOG:

Well Log ID:	285254	Well Tag #:	AFL658
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	183	Well Completion:	Not Reported
Well Owner:	HANNAH HEIGHTS & JOHN BELL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A4
North
0 - 1/8 Mile
Higher | **WA WELLS** | **WALOG3000393230**

WELLS WELL LOG:

Well Log ID:	285021	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	223	Well Completion:	Not Reported
Well Owner:	ALVIN HANNAH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

B5
ESE
1/8 - 1/4 Mile
Lower | **WA WELLS** | **WALOG3000116627**

WELLS WELL LOG:

Well Log ID:	78750	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	185	Well Completion:	29-MAY-72
Well Owner:	HANNAH HEIGHTS, INC.	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

C6
WSW
1/8 - 1/4 Mile
Higher | **WA WELLS** | **WA1300000022708**

WELLS - PWS:

PWS ID:	30850	Source #:	01
Source Name:	AFL671 WELL 1	Source Status:	Inactive
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	01/01/1970	Date Source Inactive:	12/04/1990
Water Resource Inventory Area:	San Juan	Well Depth:	174
Source Susceptibility:	X	System Name:	HANNAH HEIGHTS OWNERS ASSOCIATIO
Public Water System Group:	A	System Type:	Comm
Full Time Res Pop:	50	Total Population Served:	66
Total Connections:	44	PWS Status:	Active
Residential Connection:	43	DOE Well Tag:	Not Reported
Capacity (gpm):	3	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D7
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000138037**

WELLS WELL LOG:

Well Log ID:	86899	Well Tag #:	ABW342
Project Tag #:	Not Reported	Notice of Intent #:	W053050
Date Received:	26-JAN-96	Diameter (in):	6
Casing Depth (ft):	160	Well Completion:	21-NOV-95
Well Owner:	RANDOLF JUEL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

D8
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000138143**

WELLS WELL LOG:

Well Log ID:	87013	Well Tag #:	ACG719
Project Tag #:	Not Reported	Notice of Intent #:	W064142
Date Received:	09-APR-97	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	01-FEB-97
Well Owner:	RANDOLF JUEL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

D9
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000136974**

WELLS WELL LOG:

Well Log ID:	85736	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	5
Casing Depth (ft):	148	Well Completion:	01-JUN-83
Well Owner:	WARREN KALBACH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

D10
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000115320**

WELLS WELL LOG:

Well Log ID:	77358	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	206	Well Completion:	27-AUG-73
Well Owner:	DR. WM. F. HAMILTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

D11
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000115820**

WELLS WELL LOG:

Well Log ID:	77899	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	305	Well Completion:	03-AUG-79
Well Owner:	FRANK BOLING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

D12
South
1/8 - 1/4 Mile
Lower

WA WELLS **WALOG3000961885**

WELLS WELL LOG:

Well Log ID:	1987553	Well Tag #:	BLE578
Project Tag #:	Not Reported	Notice of Intent #:	we40861
Date Received:	09-OCT-20	Diameter (in):	6
Casing Depth (ft):	605	Well Completion:	17-SEP-20
Well Owner:	115 Clipper LLC	Well Type:	Water
Static Water Level:	90	Flow Rate (gpm):	1
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

B13
SE
1/8 - 1/4 Mile
Lower

WA WELLS **WA1300000024888**

WELLS - PWS:

PWS ID:	25264	Source #:	01
Source Name:	HANNAH HTS #2 WELL ABO726	Source Status:	Active
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	01/01/1970	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	185
Source Susceptibility:	H	System Name:	HANNAH HEIGHTS #2 WATER USERS ASS
Public Water System Group:	A	System Type:	TNC
Full Time Res Pop:	18	Total Population Served:	32
Total Connections:	16	PWS Status:	Active
Residential Connection:	16	DOE Well Tag:	Not Reported
Capacity (gpm):	25	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C14
WSW
1/8 - 1/4 Mile
Lower | **FED USGS** | **USGS40001289823**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-30K01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19010101
Well Depth:	185	Well Depth Units:	ft
Well Hole Depth:	185	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	19	Level reading date:	1988-04-07
Feet below surface:	45.63	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1987-12-23	Feet below surface:	52.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-09-25	Feet below surface:	54.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-04-17	Feet below surface:	35.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-09-13	Feet below surface:	55.21
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-04-19	Feet below surface:	42.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-09-14	Feet below surface:	55.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-06-23	Feet below surface:	50.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-17	Feet below surface:	38.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-12-10	Feet below surface:	48.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-11-04	Feet below surface:	47.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-10	Feet below surface:	53.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-08-12	Feet below surface:	57.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-07-15	Feet below surface:	40.88
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-06-10	Feet below surface:	35.91
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-05-14	Feet below surface:	35.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-08	Feet below surface:	34.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-08-10	Feet below surface:	41.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1972-05-01	Feet below surface:	13
Feet to sea level:	Not Reported	Note:	Not Reported

E15
NNW
1/8 - 1/4 Mile
Higher

WA WELLS **WALOG3000962498**

WELLS WELL LOG:

Well Log ID:	2012226	Well Tag #:	240
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	Not Reported
Well Owner:	BISCEGLIA FAMILY	Well Type:	Water
Static Water Level:	12	Flow Rate (gpm):	7
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

E16
NNW
1/8 - 1/4 Mile
Higher

WA WELLS **WALOG3000112720**

WELLS WELL LOG:

Well Log ID:	75517	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	146	Well Completion:	16-OCT-73
Well Owner:	C. T. FALLON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F17
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000551516**

WELLS WELL LOG:

Well Log ID:	377863	Well Tag #:	AGK999
Project Tag #:	Not Reported	Notice of Intent #:	W167764
Date Received:	23-APR-04	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	14-APR-04
Well Owner:	JOHN NORD	Well Type:	Water

Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F18
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000534075**

WELLS WELL LOG:

Well Log ID:	369218	Well Tag #:	AGK971
Project Tag #:	Not Reported	Notice of Intent #:	W165236
Date Received:	30-SEP-03	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	18-AUG-03
Well Owner:	JOHN AND BETTY NORD	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F19
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000123412**

WELLS WELL LOG:

Well Log ID:	80387	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	24-MAR-93	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	15-MAR-93
Well Owner:	JOHNNY BURTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F20
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000111583**

WELLS WELL LOG:

Well Log ID:	74299	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	580	Well Completion:	14-MAR-98
Well Owner:	ALEX HILL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F21
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000138795**

WELLS WELL LOG:

Well Log ID:	87692	Well Tag #:	AEP318
Project Tag #:	Not Reported	Notice of Intent #:	W103826
Date Received:	14-DEC-98	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	25-NOV-98
Well Owner:	CHARLES & DEANNA ANDERSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F22
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000393425**

WELLS WELL LOG:

Well Log ID:	285223	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	203	Well Completion:	Not Reported
Well Owner:	FRANK BOLING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

F23
WNW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000356790**

WELLS WELL LOG:

Well Log ID:	247564	Well Tag #:	AEP136
Project Tag #:	Not Reported	Notice of Intent #:	W073015
Date Received:	02-FEB-00	Diameter (in):	6
Casing Depth (ft):	700	Well Completion:	16-OCT-99
Well Owner:	PATRICIA HUNTINGTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

24
WSW
1/4 - 1/2 Mile
Higher

WA WELLS **WA1300000022283**

WELLS - PWS:

PWS ID:	11140	Source #:	01
Source Name:	Well #1 AFA977	Source Status:	Active

Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	01/01/1970	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	170
Source Susceptibility:	H	System Name:	CAREFREE OWNERS ASSN
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	4	Total Population Served:	4
Total Connections:	7	PWS Status:	Active
Residential Connection:	7	DOE Well Tag:	Not Reported
Capacity (gpm):	35	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

G25
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000809982**

WELLS WELL LOG:

Well Log ID:	1710247	Well Tag #:	BCS728
Project Tag #:	Not Reported	Notice of Intent #:	WE31738
Date Received:	13-JUN-18	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	07-JUN-18
Well Owner:	Joe Cooper	Well Type:	Water
Static Water Level:	20	Flow Rate (gpm):	2.5
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

G26
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115524**

WELLS WELL LOG:

Well Log ID:	77579	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	05-JUL-88	Diameter (in):	6
Casing Depth (ft):	183	Well Completion:	29-JUN-88
Well Owner:	EDGAR STERN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

G27
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000124581**

WELLS WELL LOG:

Well Log ID:	81645	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	298	Well Completion:	13-MAY-81
Well Owner:	MARK MCCULLOUGH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G28
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000497106**

WELLS WELL LOG:

Well Log ID:	347284	Well Tag #:	AGQ189
Project Tag #:	Not Reported	Notice of Intent #:	W123310
Date Received:	22-NOV-02	Diameter (in):	6
Casing Depth (ft):	460	Well Completion:	17-NOV-02
Well Owner:	RICHARD SEE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

G29
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000116720**

WELLS WELL LOG:

Well Log ID:	78849	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	074969
Date Received:	14-JUN-93	Diameter (in):	6
Casing Depth (ft):	145	Well Completion:	27-MAY-93
Well Owner:	HELEN & JOHN MEIDINGER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

G30
ENE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000116626**

WELLS WELL LOG:

Well Log ID:	78748	Well Tag #:	AFL672
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	385	Well Completion:	13-JUL-84
Well Owner:	HANNAH HEIGHTS & BEN WORTHINGTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

31
SSE
1/4 - 1/2 Mile
Lower

WA WELLS **WA1300000002396**

WELLS - PWS:

PWS ID:	07387	Source #:	01
Source Name:	WELL #1-ACG719	Source Status:	Active

Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	08/26/1999	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	240
Source Susceptibility:	H	System Name:	ORCA POINT WATER SYSTEM
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	2	Total Population Served:	2
Total Connections:	2	PWS Status:	Active
Residential Connection:	2	DOE Well Tag:	Not Reported
Capacity (gpm):	8	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

32
East
1/4 - 1/2 Mile
Lower

WA WELLS **WA1300000022710**

WELLS - PWS:

PWS ID:	30850	Source #:	03
Source Name:	AFL672 WELL 3	Source Status:	Active
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	12/04/1990	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	385
Source Susceptibility:	H	System Name:	HANNAH HEIGHTS OWNERS ASSOCIATIO
Public Water System Group:	A	System Type:	Comm
Full Time Res Pop:	50	Total Population Served:	66
Total Connections:	44	PWS Status:	Active
Residential Connection:	43	DOE Well Tag:	Not Reported
Capacity (gpm):	4	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

H33
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WA1300000015732**

WELLS - PWS:

PWS ID:	AA285	Source #:	01
Source Name:	WELL #1 - ABO711	Source Status:	Inactive
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	03/10/2003	Date Source Inactive:	04/13/2009
Water Resource Inventory Area:	San Juan	Well Depth:	180
Source Susceptibility:	X	System Name:	SPADAFORA WELL
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	6	Total Population Served:	6
Total Connections:	2	PWS Status:	Inactive
Residential Connection:	2	DOE Well Tag:	Not Reported
Capacity (gpm):	40	Influenced By Droughts:	Not Reported
Influenced By Flooding:	Not Reported	Influenced By Surface Water:	N

H34
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115569**

WELLS WELL LOG:

Well Log ID:	77625	Well Tag #:	Not Reported

Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	382	Well Completion:	23-JUN-75
Well Owner:	EDWON PETERS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H35
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115822**

WELLS WELL LOG:

Well Log ID:	77902	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	22-NOV-88	Diameter (in):	6
Casing Depth (ft):	700	Well Completion:	18-NOV-88
Well Owner:	FRANK BOLING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H36
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000132299**

WELLS WELL LOG:

Well Log ID:	83937	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	076235
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	26-AUG-90
Well Owner:	ROGER SHOBER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H37
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115823**

WELLS WELL LOG:

Well Log ID:	77903	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	28-NOV-88	Diameter (in):	5
Casing Depth (ft):	708	Well Completion:	Not Reported
Well Owner:	FRANK BOWAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H38
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000138109**

WELLS WELL LOG:

Well Log ID:	86977	Well Tag #:	ACG656
Project Tag #:	Not Reported	Notice of Intent #:	W066158
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	06-MAR-96
Well Owner:	JAN & CONSTATIA SMULOVITZ	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H39
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000137548**

WELLS WELL LOG:

Well Log ID:	86376	Well Tag #:	ABC536
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	24-NOV-93	Diameter (in):	6
Casing Depth (ft):	570	Well Completion:	11-NOV-93
Well Owner:	PAUL BUNNING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H40
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000493936**

WELLS WELL LOG:

Well Log ID:	343828	Well Tag #:	AGQ178
Project Tag #:	Not Reported	Notice of Intent #:	W123305
Date Received:	23-OCT-02	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	27-SEP-02
Well Owner:	DENNIS & SAMANTHA GARL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H41
SW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000393638**

WELLS WELL LOG:

Well Log ID:	285443	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	185	Well Completion:	Not Reported
Well Owner:	MICHAEL MARSHELD	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

H42
SW **WA WELLS** **WALOG3000646186**
1/4 - 1/2 Mile
Lower

WELLS WELL LOG:

Well Log ID:	1620752	Well Tag #:	BBM123
Project Tag #:	Not Reported	Notice of Intent #:	WE26996
Date Received:	01-MAY-17	Diameter (in):	6
Casing Depth (ft):	695	Well Completion:	13-APR-17
Well Owner:	115 Clipper LLC	Well Type:	Water
Static Water Level:	0	Flow Rate (gpm):	1
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

H43
SW **WA WELLS** **WALOG3000529451**
1/4 - 1/2 Mile
Lower

WELLS WELL LOG:

Well Log ID:	367591	Well Tag #:	AKY623
Project Tag #:	Not Reported	Notice of Intent #:	WE01174
Date Received:	25-AUG-03	Diameter (in):	6
Casing Depth (ft):	600	Well Completion:	04-JUL-03
Well Owner:	BOB AND DENISE GRACE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

44
SSW **FED USGS** **USGS40001289802**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-30P01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19750604
Well Depth:	382	Well Depth Units:	ft
Well Hole Depth:	382	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1975-06-23
Feet below surface:	20	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I45
SE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000136593**

WELLS WELL LOG:

Well Log ID:	85328	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	247	Well Completion:	31-MAR-81
Well Owner:	TOM NESSA	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I46
SE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000116628**

WELLS WELL LOG:

Well Log ID:	78751	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	255	Well Completion:	03-DEC-71
Well Owner:	HANNAH HEIGHTS, INC.	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I47
SE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000393424**

WELLS WELL LOG:

Well Log ID:	285222	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	202	Well Completion:	Not Reported
Well Owner:	FRANK BOLING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I48
SE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000393462**

WELLS WELL LOG:

Well Log ID:	285261	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	Not Reported
Well Owner:	HAROLD RAAP	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I49
SE **WA WELLS** **WALOG3000393461**
1/4 - 1/2 Mile
Lower

WELLS WELL LOG:

Well Log ID:	285260	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	Not Reported
Well Owner:	HAROLD RAAP	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I50
SE **WA WELLS** **WALOG3000111952**
1/4 - 1/2 Mile
Lower

WELLS WELL LOG:

Well Log ID:	74701	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	16-NOV-83	Diameter (in):	6
Casing Depth (ft):	385	Well Completion:	08-NOV-83
Well Owner:	BEN WORTHINGTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

I51
SE **WA WELLS** **WALOG3000565651**
1/4 - 1/2 Mile
Lower

WELLS WELL LOG:

Well Log ID:	383424	Well Tag #:	AFL672
Project Tag #:	Not Reported	Notice of Intent #:	W168076
Date Received:	28-JUL-04	Diameter (in):	6
Casing Depth (ft):	600	Well Completion:	04-JUN-04
Well Owner:	HANNAH HEIGHTS OWNERS ASSN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

52
North
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000116456**

WELLS WELL LOG:

Well Log ID:	78569	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W066108
Date Received:	23-MAY-96	Diameter (in):	Not Reported
Casing Depth (ft):	Not Reported	Well Completion:	13-MAY-96
Well Owner:	GORDON PETERSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

53
NW
1/4 - 1/2 Mile
Higher

WA WELLS **WALOG3000111676**

WELLS WELL LOG:

Well Log ID:	74401	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	280	Well Completion:	27-MAY-92
Well Owner:	ANAND KTTOKOTTKS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

J54
NE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000190423**

WELLS WELL LOG:

Well Log ID:	119669	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	074970
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	15-MAY-93
Well Owner:	WALLY BOTSFORD	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

J55
NE
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000136920**

WELLS WELL LOG:

Well Log ID:	85680	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	27-MAY-93	Diameter (in):	Not Reported
Casing Depth (ft):	300	Well Completion:	Not Reported
Well Owner:	WALLY BOTSFORD	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

K56
SE **FED USGS** **USGS40001289801**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-30R01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19711127
Well Depth:	255	Well Depth Units:	ft
Well Hole Depth:	255	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1971-12-03
Feet below surface:	22	Feet to sea level:	Not Reported
Note:	Not Reported		

K57
SE **FED USGS** **USGS40001289800**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-30R02	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19750713
Well Depth:	183	Well Depth Units:	ft
Well Hole Depth:	183	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	3	Level reading date:	1981-09-10
Feet below surface:	13.76	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-04-09	Feet below surface:	1.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-07-15	Feet below surface:	40
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

L58
SSW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115824**

WELLS WELL LOG:

Well Log ID:	77904	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	284	Well Completion:	26-FEB-79
Well Owner:	FRANK BRAM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

L59
SSW
1/4 - 1/2 Mile
Lower

WA WELLS **WALOG3000115825**

WELLS WELL LOG:

Well Log ID:	77905	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	284	Well Completion:	26-FEB-78
Well Owner:	FRANK BRAME	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M60
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000620436**

WELLS WELL LOG:

Well Log ID:	1607511	Well Tag #:	BBM116
Project Tag #:	Not Reported	Notice of Intent #:	WE26563
Date Received:	13-FEB-17	Diameter (in):	6
Casing Depth (ft):	570	Well Completion:	20-JAN-17
Well Owner:	Norman Schwinge	Well Type:	Water
Static Water Level:	0	Flow Rate (gpm):	.5
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

M61
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000575389**

WELLS WELL LOG:

Well Log ID:	390684	Well Tag #:	AHH948
Project Tag #:	Not Reported	Notice of Intent #:	W168087

Date Received:	25-OCT-04	Diameter (in):	6
Casing Depth (ft):	510	Well Completion:	23-SEP-04
Well Owner:	MICHAEL & SANDY BUCKLEY	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M62
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115821**

WELLS WELL LOG:

Well Log ID:	77901	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	350	Well Completion:	26-AUG-78
Well Owner:	FRANK BOLING	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M63
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000116461**

WELLS WELL LOG:

Well Log ID:	78575	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	078695
Date Received:	01-OCT-91	Diameter (in):	6
Casing Depth (ft):	305	Well Completion:	26-SEP-91
Well Owner:	GORDY PETERSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M64
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000122720**

WELLS WELL LOG:

Well Log ID:	79652	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	103	Well Completion:	01-NOV-77
Well Owner:	JERRY WALROD - BOB HARDY	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M65
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000114611**

WELLS WELL LOG:

Well Log ID:	76600	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	285	Well Completion:	Not Reported
Well Owner:	DAVID BLECKA	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M66
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115817**

WELLS WELL LOG:

Well Log ID:	77895	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	305	Well Completion:	20-MAR-74
Well Owner:	FRANK BLECKR	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M67
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115818**

WELLS WELL LOG:

Well Log ID:	77896	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	140	Well Completion:	31-AUG-78
Well Owner:	FRANK BLECKS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M68
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000409610**

WELLS WELL LOG:

Well Log ID:	1002369	Well Tag #:	BBM325
Project Tag #:	Not Reported	Notice of Intent #:	WE18623

Date Received:	08-OCT-14	Diameter (in):	6
Casing Depth (ft):	405	Well Completion:	17-SEP-14
Well Owner:	Geraldine Chutuk	Well Type:	Water
Static Water Level:	30	Flow Rate (gpm):	1
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

M69
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000423837**

WELLS WELL LOG:

Well Log ID:	304255	Well Tag #:	AFA994
Project Tag #:	Not Reported	Notice of Intent #:	W119185
Date Received:	26-SEP-00	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	15-AUG-00
Well Owner:	JOHN AND GERLADINE CHUTUK	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M70
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000485236**

WELLS WELL LOG:

Well Log ID:	1084659	Well Tag #:	BBM097
Project Tag #:	Not Reported	Notice of Intent #:	WE22522
Date Received:	12-NOV-15	Diameter (in):	6
Casing Depth (ft):	405	Well Completion:	04-NOV-15
Well Owner:	Stephen and Adele Revella	Well Type:	Water
Static Water Level:	120	Flow Rate (gpm):	3
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

M71
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000138796**

WELLS WELL LOG:

Well Log ID:	87693	Well Tag #:	AEP319
Project Tag #:	Not Reported	Notice of Intent #:	W103828
Date Received:	11-JAN-99	Diameter (in):	6
Casing Depth (ft):	440	Well Completion:	06-DEC-98
Well Owner:	SCOTT ZEHNER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M72
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000356791**

WELLS WELL LOG:

Well Log ID:	247565	Well Tag #:	AFA988
Project Tag #:	Not Reported	Notice of Intent #:	W119170
Date Received:	14-JUL-00	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	07-JUL-00
Well Owner:	JIM & LINDA ALLSUP	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

M73
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000393235**

WELLS WELL LOG:

Well Log ID:	285026	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	450	Well Completion:	Not Reported
Well Owner:	ARNOLD ANDERSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

N74
SSE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000114206**

WELLS WELL LOG:

Well Log ID:	76175	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	014525
Date Received:	31-AUG-89	Diameter (in):	6
Casing Depth (ft):	85	Well Completion:	22-JUL-89
Well Owner:	D. L. KELM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

N75
SSE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000136949**

WELLS WELL LOG:

Well Log ID:	85709	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	30
Casing Depth (ft):	17	Well Completion:	Not Reported
Well Owner:	WALTER MACGINITIE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

N76
SSE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000136950**

WELLS WELL LOG:

Well Log ID:	85710	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	125	Well Completion:	16-APR-70
Well Owner:	WALTER MACGINITIE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

O77
East
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000710516**

WELLS WELL LOG:

Well Log ID:	504852	Well Tag #:	APR165
Project Tag #:	Not Reported	Notice of Intent #:	W229906
Date Received:	11-OCT-07	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	08-OCT-07
Well Owner:	DAVE DYSART	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

O78
East
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000114208**

WELLS WELL LOG:

Well Log ID:	76177	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	11-OCT-88	Diameter (in):	6
Casing Depth (ft):	220	Well Completion:	15-SEP-88
Well Owner:	D. M. DYSART	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

79
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40001289788**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-31A01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19700408
Well Depth:	125	Well Depth Units:	ft
Well Hole Depth:	125	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	3	Level reading date:	1981-09-10
Feet below surface:	7.95	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-04-08	Feet below surface:	6.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-04-16	Feet below surface:	7
Feet to sea level:	Not Reported	Note:	Not Reported

O80
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40001289857**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-30M02	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Basalt
Aquifer Type:	Not Reported	Construction Date:	19750429
Well Depth:	450	Well Depth Units:	ft
Well Hole Depth:	450	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	3	Level reading date:	1981-09-10
Feet below surface:	80.0	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-04-08	Feet below surface:	41.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-05-05	Feet below surface:	40
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P81
WSW
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000356792**

WELLS WELL LOG:

Well Log ID:	247566	Well Tag #:	AFG256
Project Tag #:	Not Reported	Notice of Intent #:	W117477
Date Received:	20-JAN-00	Diameter (in):	6
Casing Depth (ft):	605	Well Completion:	23-DEC-99
Well Owner:	ROGER SHOBER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

P82
WSW
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000131003**

WELLS WELL LOG:

Well Log ID:	82554	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	507	Well Completion:	31-MAR-80
Well Owner:	NORMAN SCHWINGE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

P83
WSW
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000406952**

WELLS WELL LOG:

Well Log ID:	996305	Well Tag #:	BBM039
Project Tag #:	Not Reported	Notice of Intent #:	WE19608
Date Received:	09-MAR-15	Diameter (in):	6
Casing Depth (ft):	285	Well Completion:	12-JAN-15
Well Owner:	Paul Arons & Sharon Grace	Well Type:	Water
Static Water Level:	120	Flow Rate (gpm):	4.5
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

Q84
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000710990**

WELLS WELL LOG:

Well Log ID:	505385	Well Tag #:	ALS148
Project Tag #:	Not Reported	Notice of Intent #:	WE07290

Date Received:	18-DEC-07	Diameter (in):	6
Casing Depth (ft):	640	Well Completion:	15-AUG-07
Well Owner:	GLEN KALMUS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q85
WNW **WA WELLS** **WALOG3000718345**
1/2 - 1 Mile
Higher

WELLS WELL LOG:

Well Log ID:	514413	Well Tag #:	ALS133
Project Tag #:	Not Reported	Notice of Intent #:	WE06435
Date Received:	30-JAN-08	Diameter (in):	6
Casing Depth (ft):	220	Well Completion:	20-APR-07
Well Owner:	LINDA ALLSUP	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q86
WNW **WA WELLS** **WALOG3000710989**
1/2 - 1 Mile
Higher

WELLS WELL LOG:

Well Log ID:	505384	Well Tag #:	ALS147
Project Tag #:	Not Reported	Notice of Intent #:	WE07289
Date Received:	18-DEC-07	Diameter (in):	6
Casing Depth (ft):	640	Well Completion:	14-AUG-07
Well Owner:	GLEN KALMUS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q87
WNW **WA WELLS** **WALOG3000133040**
1/2 - 1 Mile
Higher

WELLS WELL LOG:

Well Log ID:	84737	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	5
Casing Depth (ft):	368	Well Completion:	08-FEB-83
Well Owner:	STEVE FOREST	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q88
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000443243**

WELLS WELL LOG:

Well Log ID:	314808	Well Tag #:	AFG278
Project Tag #:	Not Reported	Notice of Intent #:	W117512
Date Received:	03-DEC-01	Diameter (in):	6
Casing Depth (ft):	605	Well Completion:	29-JUL-01
Well Owner:	MR CONN | COLDWELL BANKER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q89
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000493916**

WELLS WELL LOG:

Well Log ID:	343805	Well Tag #:	AGQ179
Project Tag #:	Not Reported	Notice of Intent #:	W123307
Date Received:	23-OCT-02	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	29-SEP-02
Well Owner:	ALAN THOMPSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q90
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000112275**

WELLS WELL LOG:

Well Log ID:	75039	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	15-JUL-92
Well Owner:	BOB GUARD	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q91
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000113018**

WELLS WELL LOG:

Well Log ID:	75844	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	01-AUG-88	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	01-JUL-88
Well Owner:	CHRISTIE NIEBEL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Q92
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000113159**

WELLS WELL LOG:

Well Log ID:	76000	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	36
Casing Depth (ft):	20	Well Completion:	Not Reported
Well Owner:	CLINTON TURPON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

R93
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000962481**

WELLS WELL LOG:

Well Log ID:	2012169	Well Tag #:	BLE586
Project Tag #:	Not Reported	Notice of Intent #:	WE42186
Date Received:	04-FEB-21	Diameter (in):	6
Casing Depth (ft):	0	Well Completion:	11-JAN-21
Well Owner:	Ethan Schmidt	Well Type:	Water
Static Water Level:	8.5	Flow Rate (gpm):	Not Reported
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

R94
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000132399**

WELLS WELL LOG:

Well Log ID:	84042	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	11-FEB-88	Diameter (in):	6
Casing Depth (ft):	385	Well Completion:	28-NOV-87
Well Owner:	RON REED	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

R95
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000138032**

WELLS WELL LOG:

Well Log ID:	86893	Well Tag #:	ABW331
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	04-DEC-95	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	19-OCT-95
Well Owner:	NANCY BEST	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

R96
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000131928**

WELLS WELL LOG:

Well Log ID:	83537	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W002917
Date Received:	15-OCT-93	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	11-OCT-93
Well Owner:	RICK COLLINS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

R97
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000114398**

WELLS WELL LOG:

Well Log ID:	76375	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	076914
Date Received:	24-JUL-91	Diameter (in):	6
Casing Depth (ft):	260	Well Completion:	14-JUL-91
Well Owner:	DANIEL SELAK	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

S98
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000553048**

WELLS WELL LOG:

Well Log ID:	379465	Well Tag #:	AKY636
Project Tag #:	Not Reported	Notice of Intent #:	WE01230

Date Received:	06-MAY-04	Diameter (in):	6
Casing Depth (ft):	480	Well Completion:	15-SEP-03
Well Owner:	TOM EAGAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

S99
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000678198**

WELLS WELL LOG:

Well Log ID:	468746	Well Tag #:	ALS099
Project Tag #:	Not Reported	Notice of Intent #:	WE05361
Date Received:	01-FEB-07	Diameter (in):	6
Casing Depth (ft):	460	Well Completion:	12-AUG-06
Well Owner:	CHRIS POPE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

S100
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000124932**

WELLS WELL LOG:

Well Log ID:	82016	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W058427
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	340	Well Completion:	23-OCT-94
Well Owner:	MIKE CAMPBELL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

101
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000114699**

WELLS WELL LOG:

Well Log ID:	76692	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	11-FEB-88	Diameter (in):	6
Casing Depth (ft):	105	Well Completion:	24-AUG-87
Well Owner:	DAVID NASH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

102
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40001289792**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-32D01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19691009
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	160	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1969-10-09
Feet below surface:	20	Feet to sea level:	Not Reported
Note:	Not Reported		

103
SE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000494869**

WELLS WELL LOG:

Well Log ID:	344941	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	160	Well Completion:	09-OCT-69
Well Owner:	WILLIAM S KILPARTICK	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

104
WNW
1/2 - 1 Mile
Higher

WA WELLS **WA1300000018886**

WELLS - PWS:

PWS ID:	06752	Source #:	01
Source Name:	WELL #1 AKM763	Source Status:	Inactive
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	08/14/1998	Date Source Inactive:	04/01/2009
Water Resource Inventory Area:	San Juan	Well Depth:	360
Source Susceptibility:	H	System Name:	EDWARDS POINT LOT 3 WATER SYSTEM
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	2	Total Population Served:	2
Total Connections:	2	PWS Status:	Inactive
Residential Connection:	2	DOE Well Tag:	Not Reported
Capacity (gpm):	20	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

T105
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000194537**

WELLS WELL LOG:

Well Log ID:	123226	Well Tag #:	AEP333
Project Tag #:	Not Reported	Notice of Intent #:	W103838
Date Received:	29-APR-99	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	12-MAR-99
Well Owner:	TOM PIGOTT	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

T106
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000494873**

WELLS WELL LOG:

Well Log ID:	344945	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	40
Casing Depth (ft):	17	Well Completion:	15-SEP-70
Well Owner:	GEORGE E KOCH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

T107
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000123263**

WELLS WELL LOG:

Well Log ID:	80228	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	85	Well Completion:	15-APR-82
Well Owner:	JOHN MARTIN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

T108
West
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000137713**

WELLS WELL LOG:

Well Log ID:	86558	Well Tag #:	ABF740
Project Tag #:	Not Reported	Notice of Intent #:	W058630

Date Received:	19-APR-95	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	28-NOV-94
Well Owner:	A B SELLARDS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

U109
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000637979**

WELLS WELL LOG:

Well Log ID:	432862	Well Tag #:	APR102
Project Tag #:	Not Reported	Notice of Intent #:	W219759
Date Received:	07-MAR-06	Diameter (in):	6
Casing Depth (ft):	260	Well Completion:	27-FEB-06
Well Owner:	PAUL STOKES	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

U110
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000637980**

WELLS WELL LOG:

Well Log ID:	432864	Well Tag #:	APR103
Project Tag #:	Not Reported	Notice of Intent #:	W219755
Date Received:	07-MAR-06	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	04-MAR-06
Well Owner:	PAUL STOKES	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

U111
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000714268**

WELLS WELL LOG:

Well Log ID:	508798	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W229903
Date Received:	29-NOV-07	Diameter (in):	6
Casing Depth (ft):	18	Well Completion:	29-NOV-07
Well Owner:	ALVIN DREYER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

U112
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000427872**

WELLS WELL LOG:

Well Log ID:	307416	Well Tag #:	ABD143
Project Tag #:	Not Reported	Notice of Intent #:	W128953
Date Received:	13-FEB-01	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	20-JAN-01
Well Owner:	AL DREYER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

V113
ESE
1/2 - 1 Mile
Lower

FED USGS **USGS40001289809**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-29P01	Type:	Well
Description:	Not Reported	HUC:	17020001
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19720912
Well Depth:	145	Well Depth Units:	ft
Well Hole Depth:	145	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1972-10-05
Feet below surface:	12	Feet to sea level:	Not Reported
Note:	Not Reported		

W114
East
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000393443**

WELLS WELL LOG:

Well Log ID:	285241	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	158	Well Completion:	Not Reported
Well Owner:	GEO CRISTENSEN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W115
East
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000111611**

WELLS WELL LOG:

Well Log ID:	74331	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	16-JAN-86	Diameter (in):	5
Casing Depth (ft):	325	Well Completion:	08-JAN-87
Well Owner:	ALLAN SMITH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

W116
East
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000112874**

WELLS WELL LOG:

Well Log ID:	75691	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	5
Casing Depth (ft):	208	Well Completion:	27-APR-83
Well Owner:	CHARLES & DEANNA ANDERSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

X117
NE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000849888**

WELLS WELL LOG:

Well Log ID:	1791733	Well Tag #:	BCS718
Project Tag #:	Not Reported	Notice of Intent #:	WE30036
Date Received:	22-FEB-18	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	08-JAN-18
Well Owner:	Leanna Paulsen	Well Type:	Water
Static Water Level:	20	Flow Rate (gpm):	Not Reported
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

X118
NE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000809529**

WELLS WELL LOG:

Well Log ID:	1708913	Well Tag #:	BCS717
Project Tag #:	Not Reported	Notice of Intent #:	WE30037

Date Received:	18-JAN-18	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	11-DEC-17
Well Owner:	Leanna Paulsen	Well Type:	Water
Static Water Level:	5	Flow Rate (gpm):	7
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

X119
NE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000308658**

WELLS WELL LOG:

Well Log ID:	190422	Well Tag #:	AEJ681
Project Tag #:	Not Reported	Notice of Intent #:	W106299
Date Received:	02-JUL-99	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	25-JUN-99
Well Owner:	ED & MELISSA HOOTEN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

X120
NE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000137526**

WELLS WELL LOG:

Well Log ID:	86354	Well Tag #:	ABC433
Project Tag #:	Not Reported	Notice of Intent #:	W041981
Date Received:	23-FEB-94	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	09-FEB-94
Well Owner:	EDING BARBARA~ WALTER & JOYCE EARW	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

X121
NE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000267363**

WELLS WELL LOG:

Well Log ID:	1957509	Well Tag #:	BLE520
Project Tag #:	Not Reported	Notice of Intent #:	WE38985
Date Received:	01-JUN-20	Diameter (in):	6
Casing Depth (ft):	405	Well Completion:	11-MAY-20
Well Owner:	Robert Robertson	Well Type:	Water
Static Water Level:	10	Flow Rate (gpm):	5
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

V122
ESE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115739**

WELLS WELL LOG:

Well Log ID:	77811	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	145	Well Completion:	05-OCT-72
Well Owner:	F. D GARRETT	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

123
WNW
1/2 - 1 Mile
Higher

WA WELLS **WA1300000018967**

WELLS - PWS:

PWS ID:	06819	Source #:	02
Source Name:	Well #2 AFJ716	Source Status:	Active
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	09/29/2005	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	700
Source Susceptibility:	H	System Name:	KING BED & BREAKFAST WATER SYSTEM
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	4	Total Population Served:	8
Total Connections:	2	PWS Status:	Active
Residential Connection:	1	DOE Well Tag:	Not Reported
Capacity (gpm):	1	Influenced By Droughts:	Not Reported
Influenced By Flooding:	Not Reported	Influenced By Surface Water:	Not Reported

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Y124
WNW
1/2 - 1 Mile
Higher

WA WELLS **WA1300000018966**

WELLS - PWS:

PWS ID:	06819	Source #:	01
Source Name:	WELL #1	Source Status:	Active
Source Type:	Ground Water - Well	Source Use:	Emergency
Date Source Effective:	10/23/1998	Date Source Inactive:	Not Reported
Water Resource Inventory Area:	San Juan	Well Depth:	520
Source Susceptibility:	H	System Name:	KING BED & BREAKFAST WATER SYSTEM
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	4	Total Population Served:	8
Total Connections:	2	PWS Status:	Active
Residential Connection:	1	DOE Well Tag:	Not Reported
Capacity (gpm):	1	Influenced By Droughts:	Not Reported
Influenced By Flooding:	Not Reported	Influenced By Surface Water:	U

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Y125
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000625148**

WELLS WELL LOG:

Well Log ID:	422123	Well Tag #:	AHH985
Project Tag #:	Not Reported	Notice of Intent #:	W168092
Date Received:	01-NOV-05	Diameter (in):	6
Casing Depth (ft):	405	Well Completion:	21-OCT-05
Well Owner:	MIKE PICKETT	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y126
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000643511**

WELLS WELL LOG:

Well Log ID:	436601	Well Tag #:	ALS072
Project Tag #:	Not Reported	Notice of Intent #:	WE04553
Date Received:	24-MAR-06	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	20-DEC-05
Well Owner:	351 HANNAH LLC (AMECHE)	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y127
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000123261**

WELLS WELL LOG:

Well Log ID:	80226	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	105	Well Completion:	20-APR-82
Well Owner:	JOHN MARTIN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y128
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000111692**

WELLS WELL LOG:

Well Log ID:	74417	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	5
Casing Depth (ft):	360	Well Completion:	21-MAY-82
Well Owner:	ANDREW THOMPSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y129
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000111690**

WELLS WELL LOG:

Well Log ID:	74415	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W052511
Date Received:	05-DEC-94	Diameter (in):	6
Casing Depth (ft):	520	Well Completion:	16-NOV-94
Well Owner:	ANDREW MCLAGLEN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y130
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000123262**

WELLS WELL LOG:

Well Log ID:	80227	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	15-APR-82
Well Owner:	JOHN MARTIN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y131
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000423775**

WELLS WELL LOG:

Well Log ID:	304193	Well Tag #:	AFH717
Project Tag #:	Not Reported	Notice of Intent #:	W119190
Date Received:	02-JAN-01	Diameter (in):	6
Casing Depth (ft):	600	Well Completion:	20-NOV-00
Well Owner:	SCOTT CHYTIL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Y132
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000133042**

WELLS WELL LOG:

Well Log ID:	84739	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	000604
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	265	Well Completion:	Not Reported
Well Owner:	STEVE FORREST	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Y133
WNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000131817**

WELLS WELL LOG:

Well Log ID:	83421	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	403	Well Completion:	25-SEP-89
Well Owner:	RICHARD FOSTER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Z134
North
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000393216**

WELLS WELL LOG:

Well Log ID:	285007	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	280	Well Completion:	Not Reported
Well Owner:	AL SUNDTROM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Z135
North
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000393217**

WELLS WELL LOG:

Well Log ID:	285008	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	280	Well Completion:	Not Reported
Well Owner:	AL SUNDTROM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Z136
North
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000137448**

WELLS WELL LOG:

Well Log ID:	86275	Well Tag #:	AAZ487
Project Tag #:	Not Reported	Notice of Intent #:	W017850
Date Received:	31-MAY-94	Diameter (in):	6
Casing Depth (ft):	200	Well Completion:	18-MAY-94
Well Owner:	DAVID NASH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Z137
North
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000111537**

WELLS WELL LOG:

Well Log ID:	74246	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W063858
Date Received:	11-APR-95	Diameter (in):	6
Casing Depth (ft):	340	Well Completion:	28-MAR-95
Well Owner:	AL SUNDSTROM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Z138
North
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000114698**

WELLS WELL LOG:

Well Log ID:	76691	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W052512
Date Received:	05-DEC-94	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	19-NOV-94
Well Owner:	DAVID NASH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AA139
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000827239**

WELLS WELL LOG:

Well Log ID:	610509	Well Tag #:	BBM001
Project Tag #:	Not Reported	Notice of Intent #:	W229405
Date Received:	27-AUG-09	Diameter (in):	6
Casing Depth (ft):	425	Well Completion:	30-JUL-09
Well Owner:	WILLIAM NIEDRINGHAUS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AA140
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000777431**

WELLS WELL LOG:

Well Log ID:	1681607	Well Tag #:	BIS517
Project Tag #:	Not Reported	Notice of Intent #:	WE28452
Date Received:	25-SEP-17	Diameter (in):	6
Casing Depth (ft):	240	Well Completion:	29-AUG-17
Well Owner:	Forrest Dick - Forrest Dick	Well Type:	Water
Static Water Level:	17.5	Flow Rate (gpm):	20
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AA141
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000139492**

WELLS WELL LOG:

Well Log ID:	1927270	Well Tag #:	BLE511
Project Tag #:	Not Reported	Notice of Intent #:	WE36307
Date Received:	03-OCT-19	Diameter (in):	6
Casing Depth (ft):	307	Well Completion:	16-AUG-19
Well Owner:	Richard Goodhart	Well Type:	Water
Static Water Level:	19	Flow Rate (gpm):	4
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AA142
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000131523**

WELLS WELL LOG:

Well Log ID:	83110	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported

Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	340	Well Completion:	03-NOV-78
Well Owner:	R. H. ROBERTSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AA143
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000113157**

WELLS WELL LOG:

Well Log ID:	75998	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	076930
Date Received:	26-JUN-91	Diameter (in):	6
Casing Depth (ft):	224	Well Completion:	17-JUN-91
Well Owner:	CLINTON CRIST	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AA144
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115956**

WELLS WELL LOG:

Well Log ID:	78040	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	5
Casing Depth (ft):	265	Well Completion:	13-JUN-84
Well Owner:	FRED STRICKLAND	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AA145
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000423836**

WELLS WELL LOG:

Well Log ID:	304254	Well Tag #:	AFG288
Project Tag #:	Not Reported	Notice of Intent #:	W117498
Date Received:	13-NOV-00	Diameter (in):	6
Casing Depth (ft):	165	Well Completion:	07-NOV-00
Well Owner:	JOHN MACDOUGAL | COLDWELL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AA146
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000115305**

WELLS WELL LOG:

Well Log ID:	77342	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	18-AUG-87
Well Owner:	DR. JEROME HAMMOND	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AA147
ENE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000393696**

WELLS WELL LOG:

Well Log ID:	285501	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	302	Well Completion:	Not Reported
Well Owner:	PHILIP MARTIN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

148
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000566746**

WELLS WELL LOG:

Well Log ID:	384529	Well Tag #:	AKF567
Project Tag #:	Not Reported	Notice of Intent #:	WE02052
Date Received:	16-AUG-04	Diameter (in):	6
Casing Depth (ft):	180	Well Completion:	02-AUG-04
Well Owner:	SCOTT EARNHART	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AB149
NNE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000122891**

WELLS WELL LOG:

Well Log ID:	79829	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W056641

Date Received:	13-JUN-95	Diameter (in):	6
Casing Depth (ft):	360	Well Completion:	06-FEB-95
Well Owner:	JIM O'BRIAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AB150
NNE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000124086**

WELLS WELL LOG:

Well Log ID:	81116	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	320	Well Completion:	26-MAR-92
Well Owner:	LEE FREEMAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AB151
NNE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000464934**

WELLS WELL LOG:

Well Log ID:	1049248	Well Tag #:	BBM066
Project Tag #:	Not Reported	Notice of Intent #:	WE20798
Date Received:	03-SEP-15	Diameter (in):	6
Casing Depth (ft):	125	Well Completion:	13-AUG-15
Well Owner:	Larry and Anne Hamilton	Well Type:	Water
Static Water Level:	3	Flow Rate (gpm):	4
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AB152
NNE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000340397**

WELLS WELL LOG:

Well Log ID:	235672	Well Tag #:	AFA756
Project Tag #:	Not Reported	Notice of Intent #:	W099833
Date Received:	12-OCT-99	Diameter (in):	6
Casing Depth (ft):	180	Well Completion:	15-OCT-99
Well Owner:	LESLIE KEMPTON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC153
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000510146**

WELLS WELL LOG:

Well Log ID:	1313175	Well Tag #:	APR186
Project Tag #:	Not Reported	Notice of Intent #:	WE22903
Date Received:	22-JAN-16	Diameter (in):	6
Casing Depth (ft):	500	Well Completion:	05-JAN-16
Well Owner:	Tom Clemo	Well Type:	Water
Static Water Level:	0	Flow Rate (gpm):	3
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AC154
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3001044530**

WELLS WELL LOG:

Well Log ID:	2206937	Well Tag #:	BCS731
Project Tag #:	Not Reported	Notice of Intent #:	WE33383
Date Received:	05-APR-22	Diameter (in):	6
Casing Depth (ft):	605	Well Completion:	26-OCT-18
Well Owner:	JV Taylor	Well Type:	Water
Static Water Level:	90	Flow Rate (gpm):	1
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AC155
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000138509**

WELLS WELL LOG:

Well Log ID:	87400	Well Tag #:	ACW176
Project Tag #:	Not Reported	Notice of Intent #:	W103805
Date Received:	17-FEB-99	Diameter (in):	6
Casing Depth (ft):	440	Well Completion:	22-AUG-98
Well Owner:	GARY & NINA MOHI	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC156
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000133041**

WELLS WELL LOG:

Well Log ID:	84738	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	026472

Date Received:	11-MAY-90	Diameter (in):	6
Casing Depth (ft):	700	Well Completion:	09-MAY-90
Well Owner:	STEVE FORREST	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC157
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000393423**

WELLS WELL LOG:

Well Log ID:	285221	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	102	Well Completion:	Not Reported
Well Owner:	FRANK BLECKA	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC158
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000393422**

WELLS WELL LOG:

Well Log ID:	285220	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	Not Reported	Well Completion:	Not Reported
Well Owner:	FRANK BECKS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC159
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000130709**

WELLS WELL LOG:

Well Log ID:	82232	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	076238
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	20-NOV-90
Well Owner:	MOHI	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AC160
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000122285**

WELLS WELL LOG:

Well Log ID:	79188	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	026458
Date Received:	11-MAY-90	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	09-MAY-90
Well Owner:	JACK HUFFMAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC161
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000131402**

WELLS WELL LOG:

Well Log ID:	82978	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	14-MAY-93	Diameter (in):	6
Casing Depth (ft):	400	Well Completion:	Not Reported
Well Owner:	PHILLIP DANIEL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AC162
NW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000131294**

WELLS WELL LOG:

Well Log ID:	82858	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	035909
Date Received:	08-SEP-89	Diameter (in):	Not Reported
Casing Depth (ft):	Not Reported	Well Completion:	24-AUG-89
Well Owner:	PEGGIE DEANE	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AD163
NE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000627392**

WELLS WELL LOG:

Well Log ID:	424862	Well Tag #:	ALS052
Project Tag #:	Not Reported	Notice of Intent #:	WE04437

Date Received:	10-NOV-05	Diameter (in):	6
Casing Depth (ft):	600	Well Completion:	21-OCT-05
Well Owner:	SCOTT ZEHNER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AD164
NE
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000393735**

WELLS WELL LOG:

Well Log ID:	285541	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	106	Well Completion:	Not Reported
Well Owner:	ROBB MAXWELL	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AE165
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000523788**

WELLS WELL LOG:

Well Log ID:	364485	Well Tag #:	AKY617
Project Tag #:	Not Reported	Notice of Intent #:	WE01094
Date Received:	07-JUL-03	Diameter (in):	6
Casing Depth (ft):	300	Well Completion:	31-MAY-03
Well Owner:	J PAUL PATTEN & KATHLEEN MULLANEY	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AE166
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000626741**

WELLS WELL LOG:

Well Log ID:	424051	Well Tag #:	AKY699
Project Tag #:	Not Reported	Notice of Intent #:	WE02480
Date Received:	05-OCT-05	Diameter (in):	6
Casing Depth (ft):	680	Well Completion:	20-SEP-04
Well Owner:	WYLIE AND MARSHA BRYANT	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AE167
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000114790**

WELLS WELL LOG:

Well Log ID:	76787	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W039892
Date Received:	10-FEB-94	Diameter (in):	6
Casing Depth (ft):	220	Well Completion:	26-JAN-94
Well Owner:	DEAN THOMPSON	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AE168
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000138261**

WELLS WELL LOG:

Well Log ID:	87138	Well Tag #:	ACM592
Project Tag #:	Not Reported	Notice of Intent #:	W069074
Date Received:	16-APR-98	Diameter (in):	6
Casing Depth (ft):	625	Well Completion:	20-MAR-98
Well Owner:	NORMAN PEDERSEN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AE169
NNW
1/2 - 1 Mile
Higher

WA WELLS **WALOG3000124088**

WELLS WELL LOG:

Well Log ID:	81118	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	W043763
Date Received:	20-JUN-94	Diameter (in):	6
Casing Depth (ft):	260	Well Completion:	15-JUN-94
Well Owner:	LEE FREEMAN	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AF170
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000961867**

WELLS WELL LOG:

Well Log ID:	1987534	Well Tag #:	BLE576
Project Tag #:	Not Reported	Notice of Intent #:	WE40611

Date Received:	09-OCT-20	Diameter (in):	6
Casing Depth (ft):	205	Well Completion:	27-AUG-20
Well Owner:	Bruce Clarke	Well Type:	Water
Static Water Level:	20	Flow Rate (gpm):	9
Flow Type:	Static Level	PSI:	Not Reported
Well Test:	Air Test	Water Reclamation #:	2

AF171
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000124645**

WELLS WELL LOG:

Well Log ID:	81711	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	26-SEP-83	Diameter (in):	5
Casing Depth (ft):	240	Well Completion:	17-SEP-83
Well Owner:	MARTY & JERRIE PERCICH	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AF172
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000112352**

WELLS WELL LOG:

Well Log ID:	75121	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	03-SEP-85	Diameter (in):	5
Casing Depth (ft):	285	Well Completion:	30-AUG-85
Well Owner:	BOB SALZER	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

AF173
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000130648**

WELLS WELL LOG:

Well Log ID:	82167	Well Tag #:	Not Reported
Project Tag #:	Not Reported	Notice of Intent #:	Not Reported
Date Received:	Not Reported	Diameter (in):	6
Casing Depth (ft):	164	Well Completion:	Not Reported
Well Owner:	MIKE SUNDSTROM	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

AF174
NNE
1/2 - 1 Mile
Lower

WA WELLS **WALOG3000138718**

WELLS WELL LOG:

Well Log ID:	87615	Well Tag #:	AEJ660
Project Tag #:	Not Reported	Notice of Intent #:	W106284
Date Received:	28-JAN-99	Diameter (in):	6
Casing Depth (ft):	220	Well Completion:	20-JAN-99
Well Owner:	NEIL DAVIS	Well Type:	Water
Static Water Level:	Not Reported	Flow Rate (gpm):	Not Reported
Flow Type:	Not Reported	PSI:	Not Reported
Well Test:	Not Reported	Water Reclamation #:	2

175
ENE
1/2 - 1 Mile
Lower

WA WELLS **WA1300000009358**

WELLS - PWS:

PWS ID:	02736	Source #:	01
Source Name:	Well 01	Source Status:	Inactive
Source Type:	Ground Water - Well	Source Use:	Permanent
Date Source Effective:	01/01/1970	Date Source Inactive:	04/15/2009
Water Resource Inventory Area:	San Juan	Well Depth:	302
Source Susceptibility:	H	System Name:	PETERSON/NIEDRINGHAUS
Public Water System Group:	B	System Type:	GRPB
Full Time Res Pop:	5	Total Population Served:	5
Total Connections:	2	PWS Status:	Inactive
Residential Connection:	2	DOE Well Tag:	Not Reported
Capacity (gpm):	3	Influenced By Droughts:	N
Influenced By Flooding:	N	Influenced By Surface Water:	U

AE176
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40001289949**

Organization ID:	USGS-WA		
Organization Name:	USGS Washington Water Science Center		
Monitor Location:	35N/03W-19N01	Type:	Well
Description:	Not Reported	HUC:	17110003
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19740527
Well Depth:	222	Well Depth Units:	ft
Well Hole Depth:	222	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1974-05-31
Feet below surface:	24	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SAN JUAN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Wells
Source: Department of Health
Telephone: 360-236-3148
Group A and B well locations.

Water Well Listing
Source: Public Utility District
Telephone: 206-779-7656
A listing of water well locations in Kitsap County.

Ecology Well Logs
Source: Department of Ecology
Telephone: 360-407-7294
Point geodatabase with a record for each Ecology well report. Points are located by quarter quarter section centroid. Points contain all well report types including water wells, resource protection wells, and decommissioned wells.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing
Source: Department of Natural Resources
Telephone: 360-902-1450
Locations that represent oil and gas test well sites in Washington State from 1890 to present.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

Bailer Hill Road
3189 Bailer Hill Rd
Friday Harbor, WA 98250

Inquiry Number: 7672622.5
June 06, 2024

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information

FINDINGS

TARGET PROPERTY STREET

3189 Bailer Hill Rd
Friday Harbor, WA 98250

Year	*CD Image*	*Source*

BAILER HILL RD

2020	pg A2	EDR Digital Archive
2017	pg A5	Cole Information
2014	pg A7	Cole Information
2010	pg A10	Cole Information
2005	pg A12	Cole Information
2000	pg A14	Cole Information
1995	pg A16	Cole Information
1992	pg A18	Cole Information

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
STRAITSVIEW DR		
2020	pg. A4	EDR Digital Archive
2017	pg. A6	Cole Information
2014	pg. A9	Cole Information
2010	pg. A11	Cole Information
2005	pg. A13	Cole Information
2000	pg. A15	Cole Information
1995	pg. A17	Cole Information
1992	pg. A19	Cole Information

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BAILER HILL RD 2020

228	C Fitch
	Pamela Fitch
316	BAILER HILL CONSTRUCTION
	Sandra Strehlou
336	Christopher Spaulding
	Leona Spaulding
392	Robyn Buehler
415	John Vernon
	Victoria Vernon
479	Justin Martel
494	GEISER APPLIANCE REPAIR
	Mikayla Geiser
983	SHEPHARD FAMILY ENT LLC
1069	Susan Clark
1232	Rachel Merz
1373	Marcia Walters
1405	Devin Smith
1408	BOB'S TAXI & TOURS
	Jerry Rhodes
	Rebecca Rhodes
1544	Donna Shaw
	Rosemary Shaw
	RS ISLAND SVC
	William Shaw
1550	Albert Barsocchini
1555	GROOVY STUFF
	Jennifer Prescott
1656	David Caudill
	Julie Caudill
	Justin Caudill
1671	Anthony Serna
	Karina Serna
	Rhiannon Serna
	Teagan Serna
1732	Laura Earnheart
	Tori Patterson
1863	John Byron
	Leslie Byron
	Megan Pollock
	Ray Smith
1894	Wallace Botsford
1895	Jon Holbrook
1929	Peter Swarzenski
2229	Laura Bauer
2260	Alex Oettinger
2334	Steven Grandle
2368	Alayne Goodhart
	Richard Goodhart
2575	Amy Herdy
	Earl Denmark

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BAILER HILL RD 2020 (Cont'd)

2575	Matthew Claussen
	Richard Young
2634	Annette Maas
	Daniel Lobue
	Toni Lobue
2901	Andrew Tate
	Lisa Tate
	Tate Bisceglia
2903	Marie Bisceglia
3069	Andria Buttwinick
	Andria Rhine
3115	Douglas Rhine
	James Rhine
3148	Candice Runaas
3189	LITTLE MOUNTAIN FIRE STATION
3203	Kimberlee Sowers
	Patricia Wittkopp
	Paul Hiatt
3308	Hella Cascorbi
3579	Paul Arons
	Sharon Grace
3641	Michael Buckley
3695	Christine Bush
3729	Janice Goldberg
	Lewis Goldberg
	Louis Prussack
3805	Christina Detterbeck
	Ingeborg Detterbeck
3807	Geraldine Chutuk
3917	Verne Howard

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

STRAITSVIEW DR 2020

90	Edgar Hale
	Shireene Hale
151	Linnea Anderson
162	Bennett Griffin
	Melinda Griffin
	Steven Griffin
179	Luz To
	Sean Batken
209	Judy Wesch
210	Annette Elsbree
	John Elsbree
219	Jerold Miller
	Teresa Pletch
238	Andrea Hart
	Jane Hart
	Paul Hart
240	David Finholm
	John Finholm
	Kathy Finholm
304	Luke Severn
	Sarah Severn
323	Sharon Morris
	Steven Morris
366	Myra Finch
	Warren Finch
417	Antonella Pavese
	Caitlin Doran

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2017

316 BAILER HILL CONSTRUCTION
MEILAND, DAVID A
336 SPAULDING, CHRISTOPHER T
392 BUEHLER, CHAD
479 MARTEL, JUSTIN E
494 GEISER, MIKAYLA D
983 DORTCH, ALAN R
1232 MERZ, RACHEL
1259 SERBIAN, KEN C
1544 SHAW, ROSEMARY N
1555 JLP DESIGN
PRESCOTT, BRIAN M
1656 CAUDILL, DAVID M
1671 SERNA, ANTHONY K
1732 ONIEVA, RAYMOND
1863 BYRON, JOHN R
1894 FELDMILLER, SUSAN L
1895 HOLBROOK, JOHN
2229 BAUER, LAURA E
2260 POPHAM, DOUG
2334 ROBERTS, ELIZABETH A
2368 GOODHART, RICHARD J
2575 CLAUSSEN, MATTHEW G
SHEPHERDS CROFT
2634 LOBUE, DANIEL P
2901 BISCEGLIA, TATE
2903 BISCEGLIA, MARIE D
3148 GILES, DEBBIE
HANNAH, VERNON D
HILL, RISHELLE
MASON, TESSA
MINTER, JESSE
RUNAAS, CANDICE K
3189 LITTLE MT FIRE STATION
3203 OBERREIT, KATHRYN G
3241 CRESSY, DIANE A
3308 CASCORBI, HELLA R
3641 BUCKLEY, SANDRA J
NOTED OCCASIONS
3695 BUSH, CHRISTINE M
3805 ALLEN, ROBERT R
3807 CHUTUK, GERALDINE D
3979 RAPP, SUZANNE

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 2017

151	COTTON, TAMMY M
179	BATKEN, SEAN
209	WESCH, VINCENT A
210	NELSON, BOB C
219	MILLER, JEROLD P
240	FINHOLM, DAVID D
304	SEVERN, LUKE
323	SMITH, JOSH

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2014

126 WYATT, ELIZABETH
298 DHATT, LAURA
316 BAILER HILL CONSTRUCTION
MEILAND, DAVID A
336 SPAULDING, CHRISTOPHER T
392 OCCUPANT UNKNOWN,
415 OCCUPANT UNKNOWN,
479 MARTEL ENTERPRISES
MARTEL WELL DRILLING INC
MARTEL, JUSTIN E
494 OCCUPANT UNKNOWN,
983 FOWLER, MARY E
1232 MERZ, RACHEL
1259 OCCUPANT UNKNOWN,
SERBIAN, KEN C
1405 ROLOFF, PETER J
1408 OCCUPANT UNKNOWN,
1424 BARTO, KATHERINE
1544 SHAW, ROSEMARY N
1550 TRIEBER, JUDITH B
1656 CAUDILL, DAVID M
1671 SERNA, ANTHONY K
1732 EARNHEART, LAURA
ISLANDS PHOTO & DESIGN
1863 BYRON, JOHN R
1894 FELDMILLER, SUSAN L
1895 HOLBROOK, JOHN
1929 OCCUPANT UNKNOWN,
2229 OCCUPANT UNKNOWN,
2238 GHIZZO, SEBASTIEN
2260 POPHAM, DOUG
2334 ROBERTS, ELIZABETH A
2341 ANDERSON, CHARLES L
2368 LINDSAY, GRETCHEN
2575 OCCUPANT UNKNOWN,
2634 LOBUE, DANIEL P
2901 BISCEGLIA, TATE
2903 BISCEGLIA, MARIE D
3069 BUTTWINICK, ANDRIA R
3148 ADAMS, DON
HANNAH, VERNON D
HILL, RISHELLE
JUILLERAT, MICHAEL
MASON, TESSA
RUNAAS, CANDICE K
3189 LITTLE MT FIRE STATION
OCCUPANT UNKNOWN,
3203 OCCUPANT UNKNOWN,
3241 LUDEMAN, DIANE
3308 CASCORBI, HELLA R

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2014 (Cont'd)

3406	OCCUPANT UNKNOWN,
3445	OCCUPANT UNKNOWN,
3579	OCCUPANT UNKNOWN,
3587	OCCUPANT UNKNOWN,
3641	BUCKLEY, MICHAEL J
3695	BUSH, CHRISTINE M
3729	PRUSSACK, LOUIS
3805	SCHWINGE, NORM W
3807	CHUTUK, GERALDINE D
3897	OCCUPANT UNKNOWN,
3979	RAPP, SUZANNE

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 2014

90	HALE, EDGAR O
151	ANDERSON, DAVID J
162	GRIFFIN, STEVEN L
179	HANSEN, STUART L
209	WESCH, VINCENT A
210	WILKINSON, TERRENCE J
219	MILLER, JEROLD P
238	GARL, DENNIS L
240	OCCUPANT UNKNOWN,
276	UGRIN, SANDI J
304	SEVERN, MARTIN S
323	MORRIS, STEVEN M
366	FINCH, WARREN I
389	JOHNSON, ANDREW R
415	OCCUPANT UNKNOWN,
417	DORAN, SCOTT M

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2010

126	WYATT, ELIZABETH
147	CARTER, GREG G
316	MEILAND, DAVID A
324	CADY, RONALD D
336	SPAULDING, CHRISTOPHER T
415	BOWERS, CASSANDRA J
479	MARTEL ENTERPRISES
1232	DOUGLAS, TOM A
1259	LOEFFIER, KARL
	LOEFLER, KARI
	SERBIAN, KEN C
1373	TRAUB, MICHAEL L
1405	CHAPMAN, ASHLEY
1544	SHAW, WILLIAM L
1550	TRIEBER, JUDITH B
1656	CAUDILL, DAVID M
1671	SERNA, ANTHONY K
1732	WHEELER, JARON L
1863	BYRON, JOHN R
1894	BOTSFORD, WALLY E
2341	ANDERSON, CHARLES R
2575	DYSART, DAVID M
	SHEPHERDS CROFT
2634	LOBUE, TONI K
2901	TATE, ANDREW C
2903	BISCEGLIA, MARIE D
3069	BUTTWINICK, ANDRIA R
3115	RHINE, JAMES E
3148	FORD, SHAWNA
3241	LUDEMAN, DIANE
3587	BUNNING, PAUL N
3641	BUCKLEY, MICHAEL J
3805	SCHWINGE, NORM W
3807	CHUTUK, GERALDINE D

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 2010

90	HALE, SHIREENE G
162	WEHNER, STEPHANIE
179	HANSEN, GLEN A
209	WESCH, VINCENT A
219	WEAVER, TAMARA M
276	UGRIN, SANDI J
323	DOVETAIL BUILDERS
	MORRIS, STEVEN M
366	FINCH, WARREN I
389	CANTRILL, PEGGY
417	MUGHAL, AWAIS S

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2005

147	CARTER, GREG G
316	BAILER HILL CONSTRUCTION INC
324	CADY, RONALD D
415	BOWERS, CASSANDRA J
479	HANDY, ERNEST D
	MARTEL WELL DRILLING INC
983	VACCARIELLO, STEVE
1232	MACCORMACK, R
1259	SERBIAN, KEN C
1408	DANLEY, DAN
1540	SLOCOMB, RAY M
1544	RS ISLAND SERVICES
	SHAW, WILLIAM L
1555	CANNON CONSTRUCTION SERVICES
	JLP DESIGN
	PRESCOTT, JENNY
1671	BOID, ROGER R
1732	BELCHER, ROBERT
1863	BYRON, JOHN R
	KANAKA BAY CATERING
1894	LIBBY LANDSCAPING
2334	GRANDLE, STEVEN D
2341	ANDERSON, DEANNA
2368	LINDSAY, JOHN S
2575	DYSART, DAVID M
	SHEPHERDS CROFT
2634	LOBUE, TONI K
2901	TATE, ANDREW
2903	PECKMAN, GABE
3069	BUTTWINICK, ANDRIA R
	RHINE DESIGNS
3115	MAZZEI, MICHELE
3148	HANNAH, BERNIE B
3203	WITTKOPP, DANIEL
3310	KRIEGER, JOHANNES W
3406	BILLS, MICHAEL
3587	BUNNING, PAUL
3805	SCHWINGE, NORM W
3807	CHUTUK, GERALDINE
5075	RAPP, SUZANNE

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 2005

162	HANNA, JOSHUE
179	HANSEN, GLEN A
209	WESCH, VINCENT A
210	ELSBREE, JOHN
240	RAAP, HAL F
264	SWINDELLS, GEOGE
276	FOGLE, DANIEL R
304	POTTER, SHIRLEY S
323	MORRIS, SHARON
366	FINCH, WARREN I

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 2000

1259	GOLDBERG, PETE
	MARKHAM, GERALD
	ROGERS, TERRY
	ROUEN, PATTI D
	RUBIN, RICHARD G
	TURMAN, MERLE
1441	CARTER, GREG
1755	HANDY, ERNEST
	MARTEL ENTERPRISES
	MARTEL WELL DRILLING INCORPORATED
2251	SERRANO SPARROW
2499	WRIGHT, BILL
2560	MCCLELLAND, TOM
2747	CLARK, CHARLIE
2770	SHAW, WILLIAM
2812	SELAK, DAN
2909	BOID, ROGER R
3085	BYRON, JOHN
3140	BOTSFORD, WALLY
3151	QUEEN OF CLEAN LICENSED LOCAL REFERENCES
3310	KRIEGER, J
	ORCA ADVENTURES ECO CAMPS
	STANLEY, HUGH
3675	ANDERSON, DEANNA J
3755	SMITH, ALLAN J
3845	DYSART, DAVE
4352	HANNAH, BERNELL
4457	HART, NANCY J
4795	BUNNING, PAUL
4851	ZEHNER, SCOTT

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 2000

2826	PACE, TOM
2845	ELSBREE, JOHN
2850	WESCH, VINCENT A
2875	RAAP, HAL
2916	SMITH, PAUL
2923	POTTER, SHIRLEY S
2939	FINCH, WARREN I

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 1995

1259	MARKHAM, GERALD
	ROUEN, PATTI D
	RUBIN, RICHARD G
1441	CARTER, GREG
1721	FROULA, DAVID
1755	HANDY, ERNEST
2560	MCCLELLAND, TOM
2625	TRAUB, MICHAEL
2770	LAWRENCE, KIT
2812	SELAK, DAN
2909	KEYS, LYNN
3140	BOTSFORD, WALLY
3151	QUEEN OF CLEAN
	RUPNICK, RON
3310	KRIEGER, WOLF
	STANLEY, HUGH
3600	ROBERTS, BETSY
3675	ANDERSON, CHARLES
3845	DYSART, DAVE
4261	RHINE, JAMES
4352	HANNAH, BERNELL
	MAULDIN, NATHAN
4421	MORRISON, BRIAN R
4745	LAMONT, M D
4795	BUNNING, PAUL
4851	JACKSON, JOHN H
4951	KENYON, FRED L
5031	KOCH, GEORGE

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 1995

2826 PACE, TOM
2875 RAAP, HAL
2923 POTTER, ROBERT M

Target Street	Cross Street	Source
✓	-	Cole Information

BAILER HILL RD 1992

1259	MARKHAM, GERALD
1755	HANDY, ERNEST
2560	MCCLELLAND, TOM
2770	LAWRENCE, KIT
2909	KEYS, LYNN
3310	KRIEGER, WOLF
	STANLEY, HUGH
3600	ROBERTS, BETSY
3675	ANDERSON, CHARLES
3755	SMITH, ALLAN J
4261	RHINE, JAMES
4352	HANNAH, BERNELL
4421	MORRISON, BRIAN R
4457	ELMORE, GILBERT E
4745	LAMONT, M D
4795	BUNNING, PAUL
4851	JACKSON, J H
4951	TUREK, CHARLES B
5031	KOCH, GEORGE
17214	FROULA, DAVID

Target Street	Cross Street	Source
-	✓	Cole Information

STRAITSVIEW DR 1992

2840 EARP, WALTER
2923 POTTER, ROBERT M

LIGHTBOX

INVOICE

Environmental Data Resources, LLC
6 Armstrong Road, 4th Floor
Shelton, CT 06484
Email: AR@lightboxre.com

Invoice #: INVEDR1218613
Invoice Date: 6/6/2024
Due Date: 6/6/2024
Order #: 7672622
Order Date: 6/5/2024

Account #: 1134231
Customer ID: C-0031985

Bill To
Geo Engineers
239 Casuseway street
Boston, MA 02114

Ship To
Matthew Mcgavick
239 Casuseway street
Boston, MA 02114

Preferred Payment Method:
To view and pay your invoices online, please visit our **customer portal**

Property Info	Project #	PO #	Package	Item	Tax	Amount
Bailer Hill Road, 3189 Bailer Hill Rd, Friday Harbor, WA 98250	Bailer Hill Road	000504-217-00	EDR Lightbox Standard			$350.00
				Radius Map With Geo	N	
				Certified Sanborn Map Rpt	N	
				Historical Topo Map	N	
				City Directory Image Report	N	
				EDR Lightbox Building Permit	N	
				Online Sanborn Report Viewer	N	
				Aerial Photo Search	N	
				EDR Lightbox	Y	

SALES TAX $1.56

TOTAL DUE $351.56

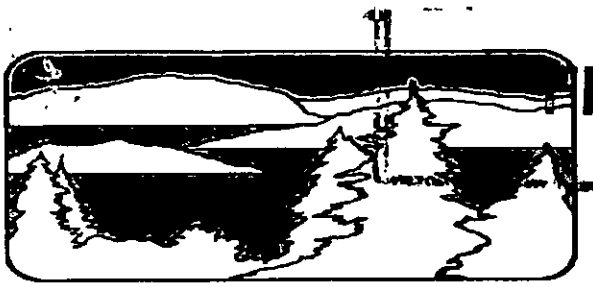
ACH Beneficiary: Environmental Data Resources, LLC
Account Number: 4940746001
ABA Routing: 121000248
Bank: Wells Fargo, N.A.
Send remittance to Remit@lightboxre.com and reference invoice number(s) paid

If paying by check:
Environmental Data Resources, LLC
PO Box 201583
Dallas, TX 75320-1583
Please allow 21 days for processing

In order to remain compliant with state tax laws, LightBox regularly reviews its sales by 'ship to' state, each state's updated requirements and its customers' resale certificates on file. This process can result in changes to the sales tax calculated on your invoice. The absence of sales tax on this invoice should not be interpreted as your sales tax obligation being satisfied. Please ensure that you have consulted with the taxing jurisdictions where our products are being used to understand your sales and use tax obligations.

Attachment B

Little Mountain Fire Station Septic As-Built and Building Plan



INAL

Health & Community Services

San Juan C

Parcel: 353050029000
Permit ID: 2003125
Final

P.O. Box 607 ◆ 145 Rhone, Friday Harbor, WA 98250
Phone: (360) 378-4474 Fax: (360) 378-7036

HEALTH & COMMUNITY SERVICES

SEWAGE DESIGN APPLICATION

Design No: 2003125-00 Fee: 345.00 Date: 6/9/03 # 16096

This Application is to be used for any activity requiring a Sewage Design per SJCC 13.04. When numbered, signed, and dated, this becomes a Sewage Design. Please fill out the form completely, or it will not be accepted. Sewage Designs are valid for four years from the date of issuance. Applicant may appeal any decision pertinent to this design with the San Juan County Board of Health. An approved design is required before the issuance of a new installation permit.

PROPERTY INFORMATION:

Tax Parcel Number: 3 5 3 0 5 0 0 2 9

Island: San Juan Subdivision: Hannah Heights Lot Number: 29

Property Size: .99 ac. (acres/square feet)

Directions to Property: Corner of Bailer Hill Rd. and Straits View Dr.

5.28.03

5100181
RICHARD J. PETRO
LICENSED DESIGNER
EXPIRES 9.28.03

APPLICANT INFORMATION:

Name of Applicant: Hannah Heights Owners Assoc. Telephone:
Little Mt. Fire Station

Address: P.O. Box 772

City: Friday Harbor State: Wa Zip Code: 98250

Application Type (✓ one)	Water Supply (✓ one)	Proposed System Type (✓ one)
☐ New Residential	☒ Individual Well (serves only 1 house)	☐ Gravity Distribution
☒ New Non-residential/Commercial	☐ Community Water Supply	☐ Pressure Distribution
☐ Repair	Water System Name:	☐ Mound
☐ Revision	☐ Other (specify):	☒ Sand Filter
Original Design #:		
☐ Connection to Community System		☐ Aerobic Unit
☐ Privy		☐ Other (specify):
☐ Other (specify):		

Soil Registration (Log) Number for sites registered prior to January 1, 1998:

Proposed Number of Bedrooms: 240 gallons per day

Is any part of the project within 200 feet of the shoreline? ☐ Yes ☒ No
Is any part of the project within the service area (L.I.D or town limits) of a sewer utility? ☐ Yes ☒ No
Is application for single family residence for Applicant's own use? ☒ Yes ☐ No

I hereby certify that I have read and examined this application and know the same to be true and correct. All provisions or laws and ordinances governing this project will be complied with whether specified herein or not. I understand that the granting of this design does not presume to give authority to violate or cancel provisions of any other state or local law regulating construction or land or shoreline use.

agent for: Hannah Heights Owners Assco. — 5/28/03
Signature of Applicant Date

Signature of Designer Rick Petro — 5/28/03
Date

FOR OFFICIAL USE ONLY

Conditions for Approval: Cochran starting 12-23-4

Permit Center Review: NA / Joyce S. Date: 6-10-3 Design Approved: J Compton Date: 06/10/03

DESIGN

Plot Plan: Attach or draw, in the space provided below, a scaled plot plan showing the location of the proposed septic system, including the septic tank, pump chamber, treatment component(s) and drainfield, in relation to house(s), property lines, wells, streams, lakes, ditches, wetlands, curtain drains and embankments. Provide a scale bar and north seeking arrow.

Drawing Scale: Inches_____ to Feet_____
Septic tank size:_____
Drain field Length:_____
Soil App. Rate ____

Bottom of trench in soil type 4

Soil Log #1	Soil Log #2	Soil Log #3	Soil Log #4
Initial area: 0- 9"-dk. brown sandy loam 9-14"-orange grown sandy loam 14-22"-mottled sand over sandy hardpan	Reserve area: 0- 8"-med. brown sandy loam 8-23"-loamy sand w/mottling over mottled sandy hardpan		
Water Table:	Water Table: 26"	Water Table:	Water Table:

Attach separate sheet(s) for additional soil logs. Attach separate sheets for calculations, specifications & cross sections if necessary.

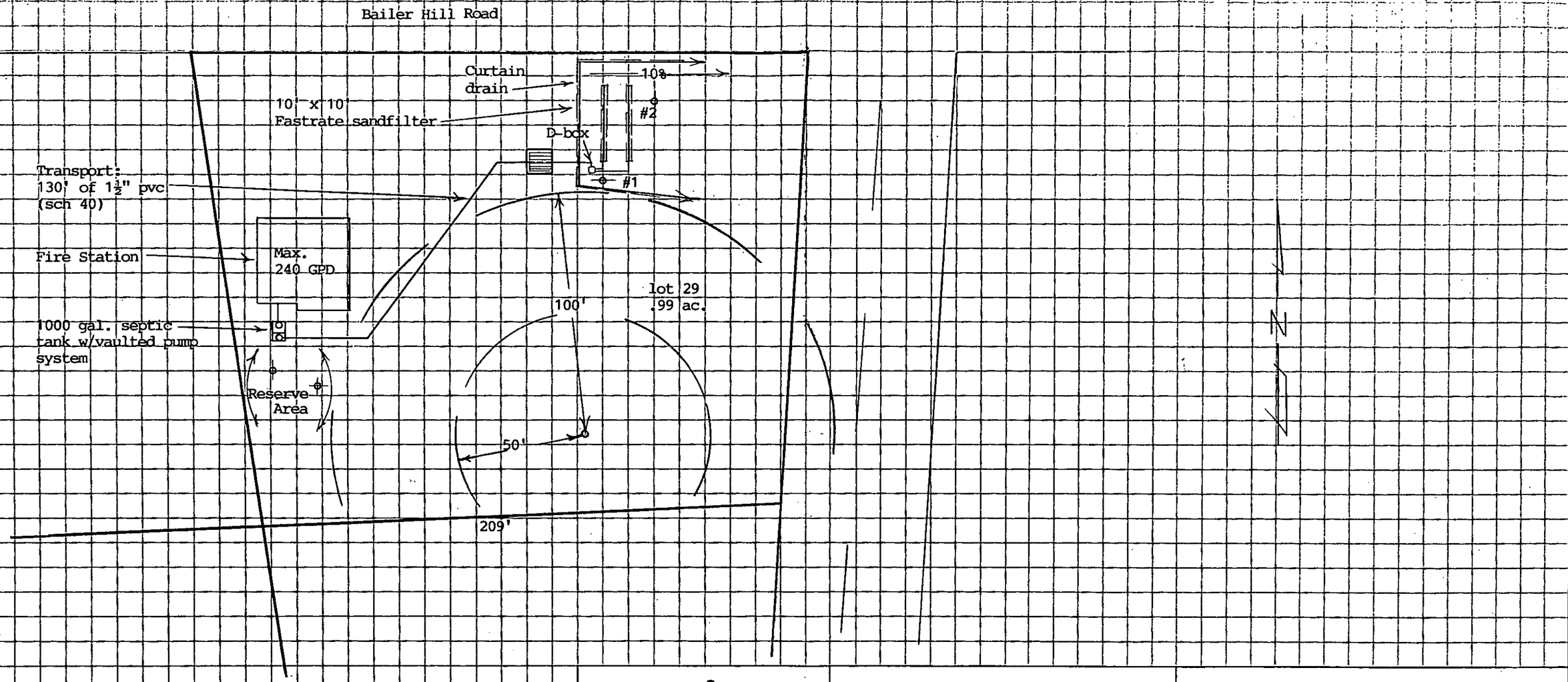
Design Checklist

Plot Plan ***(show distances to components)*****:**
- ☐ Scale
- ☐ North arrow
- ☐ Test hole location
- ☐ Well(s), include any neighboring wells within 100 feet of proposed system.
- ☐ Property lines
- ☐ Water bodies, include streams, lakes, marine, and wetlands
- ☐ Slope (direction and percent)
- ☐ Location of septic tank, treatment component, drainfield & reserve area
- ☐ Existing or proposed waterlines
- ☐ Roads & driveways

Calculations:
- ☐ Lateral length
- ☐ Orifice spacing & total # of orifices
- ☐ Orifice size
- ☐ Total dynamic head and gallons per dose

Specifications:
- ☐ Pipe material, include both the size and type
- ☐ Filter media
- ☐ Required pump(s), screens & timers

Cross Sections:
- ☐ Mound
- ☐ Sand Filter
- ☐ Curtain drain
- ☐ Trench depth from original grade, show up-slope & down-slope depths on slopes >5%
  Depth of backfill
- ☐ Clean-out; Riser & Inspection Port Detail(s)



5100181
RICHARD J. PETRO
EXPIRES 9·28·03
5-28-03

ORCAS SEWAGE DESIGN

P.O. BOX 492
EASTSOUND, WA 98245
(360) 376-2762

JOB Hannah Heights Owner's Assoc.
Little Mountain Fire Station

SHEET NO. 1 OF 9

CACULATED BY _____ DATE _____

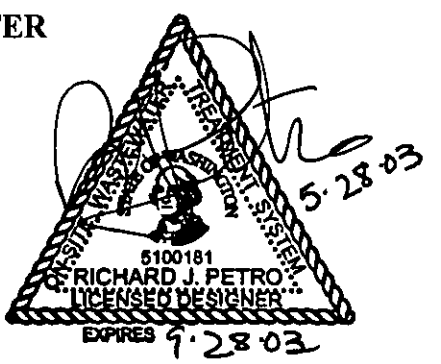
CHECKED BY _____ DATE _____

SCALE 1" = 40' tpn 3530 50029

ORCAS SEWAGE DESIGN, INC.
P.O. BOX 492
EASTSOUND, WA. 98245
360/376-2762

JOB: HANNAH HEIGHTS OWNERS ASSOC.
LITTLE MOUNTAIN FIRE STATION
TAX PARCEL # 3530 50029

10' X 10' FASTRATE SANDFILTER



A. DAILY FLOW

1.	Number Bedrooms =	2
2.	Gallons Per Bedroom =	120
3.	Total Gals. Per Day =	240

B. BED AREA

1.	Gallons Per Day =	240
2.	Fill Material Selected = 4 x 50 Sand (ASTM C-33 is unacceptable)	
3.	Infiltration Rate of Selected Fill = 4 gals./sq. ft./day	
	Example of Fill Material: Eliminate from ASTM C-33 everything that passes a #50 mesh screen. Anything coarser is acceptable.	
4.	Total Square Feet = round to	100 feet
5.	Bed Width =	10 feet
6.	Bed Length =	10 feet

C. DISTRIBUTION NETWORK

1.	Orifice Spacing =	14 inches
2.	Orifice Diameter =	1/8 inch
3.	Lateral Length =	8.75 ft.
4.	Orifice/Lateral =	8
5.	Lateral Diameter =	¾ inch
6.	Number of Laterals =	8
7.	Distance Between Laterals =	15 inches
8.	Distance Between Lateral & Edge of Bed =	6.5 inches
9.	Manifold Diameter =	1 ¼" inch
10.	Manifold Length =	8.75 ft.
11.	Transport Pipe Diameter =	1 ½"
12.	Transport Pipe Length =	130 ft.
13.	Total Gallons Per Minute =	27.7 G.P.M

ORCAS SEWAGE DESIGN, INC.
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360/376-2762

JOB: HANNAH HEIGHTS OWNERS ASSOC.
LITTLE MOUNTAIN FIRE STATION
TAX PARCEL # 3530 50029

10' X 10' FASTRATE SANDFILTER (CONT'D)

D. PUMP SPECIFICATIONS

1. Total Gallons per Minute Required = 27.7 G.P.M.
2. Gallons per day = 240
3. Pump Tank = 1000 gal. septic tank
4. Pump Head = 17.6 ft. with friction loss
5. Transport Pipe = 130' of 1 ½"" pvc (sch40)

6. Pump : High Head Effluent Pump
   #P30 05 11 w/anti-siphon valve
   1/2 h.p. 110V
   Control Panel: MVP #S1 PT RO

E. DOSING FREQUENCY

1. Doses per day = 17-18 per day
2. Dose Volume = 14 gals. per dose
3. Timer Setting = 30 seconds "on"
   29.5 minutes "off"
4. Alarm Float = 3"
5. Reserve Capacity = 402
6. Dose Volume is 10 + times the drainable interior volume.

F. DESIGN PARAMETERS - Residential Wastewater Characteristics:

For proper operation of the system the septic tank wastewater strengths must be within the guidelines set forth below:

	Average	Occasional Peak
Gallons per day	120	<240
BOD	130	200
TSS	40	60
O&G (oil & greases)	20	25

Pump Selection for a Pressurized System

LITTLE MOUNTAIN FIRE STATION, TPN 3530 50029

Input Parameters

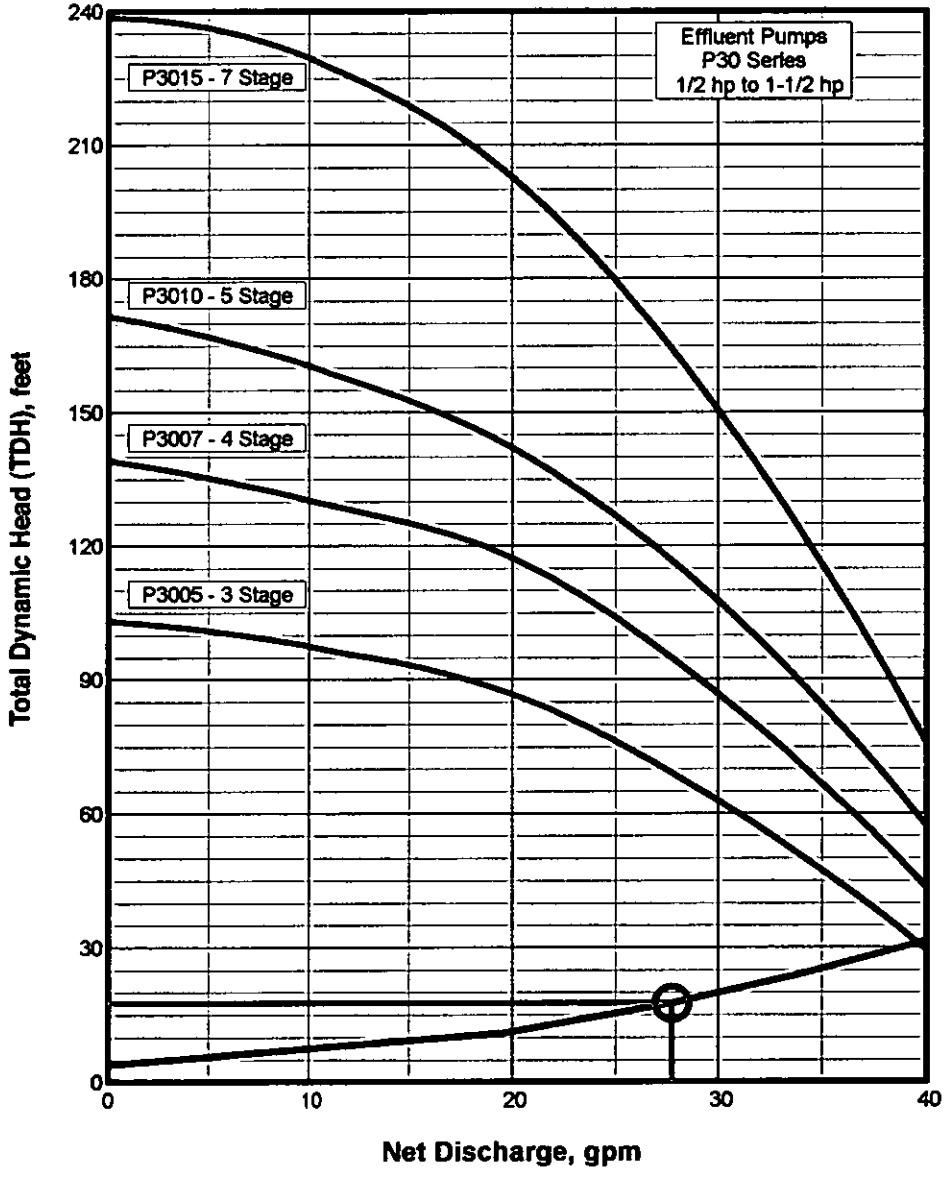
Orifice Size	1/8	inches
Residual Head at Last Orifice	5.0	feet
Orifice Spacing	1.25	feet
Number of Laterals per Cell	8	
Lateral Length	8.8	feet
Lateral Line Size	0.75	inches
Lateral Pipe Class/Schedule	40	
Distributing Valve Model	None	
Manifold Length	8.8	feet
Manifold Line Size	1.25	inches
Manifold Pipe Class/Schedule	40	
Lift to Manifold	0.0	feet
Transport Length	130.0	feet
Transport Line Size	1.50	inches
Transport Pipe Class/Schedule	40	
Discharge Assembly Size	1.50	inches
Flow Meter	None	inches
'Add-on' Friction Losses	4.0	feet

Calculations

Minimum Flow Rate per Orifice	0.43	gpm
Number of Orifices per Zone	64	
Total Actual Flow Rate	27.7	gpm
Number of Lines per Zone	8	
% Flow Differential 1st and Last Orifice	0.7	%
Lift to Manifold	0.0	feet
Residual Head at Last Orifice	5.0	feet
Head Loss in Laterals	0.1	feet
Head Loss Through Distributing Valve	0.0	feet
Head Loss in Manifold	0.2	feet
Head Loss in Transport Pipe	5.9	feet
Head Loss Through Discharge	2.3	feet
Head Loss Through Flow Meter	0.0	feet
'Add-on' Friction Losses	4.0	feet

Total Flow Rate 27.7 gpm

TDH 17.6 feet



Orenco Systems Incorporated

814 AIRWAY AVENUE

SUTHERLIN, OREGON

97479

TOLL FREE:

(800) 348-9843

TELEPHONE:

(541) 459-4449

FACSIMILE:

(541) 459-2884

www.orenco.com

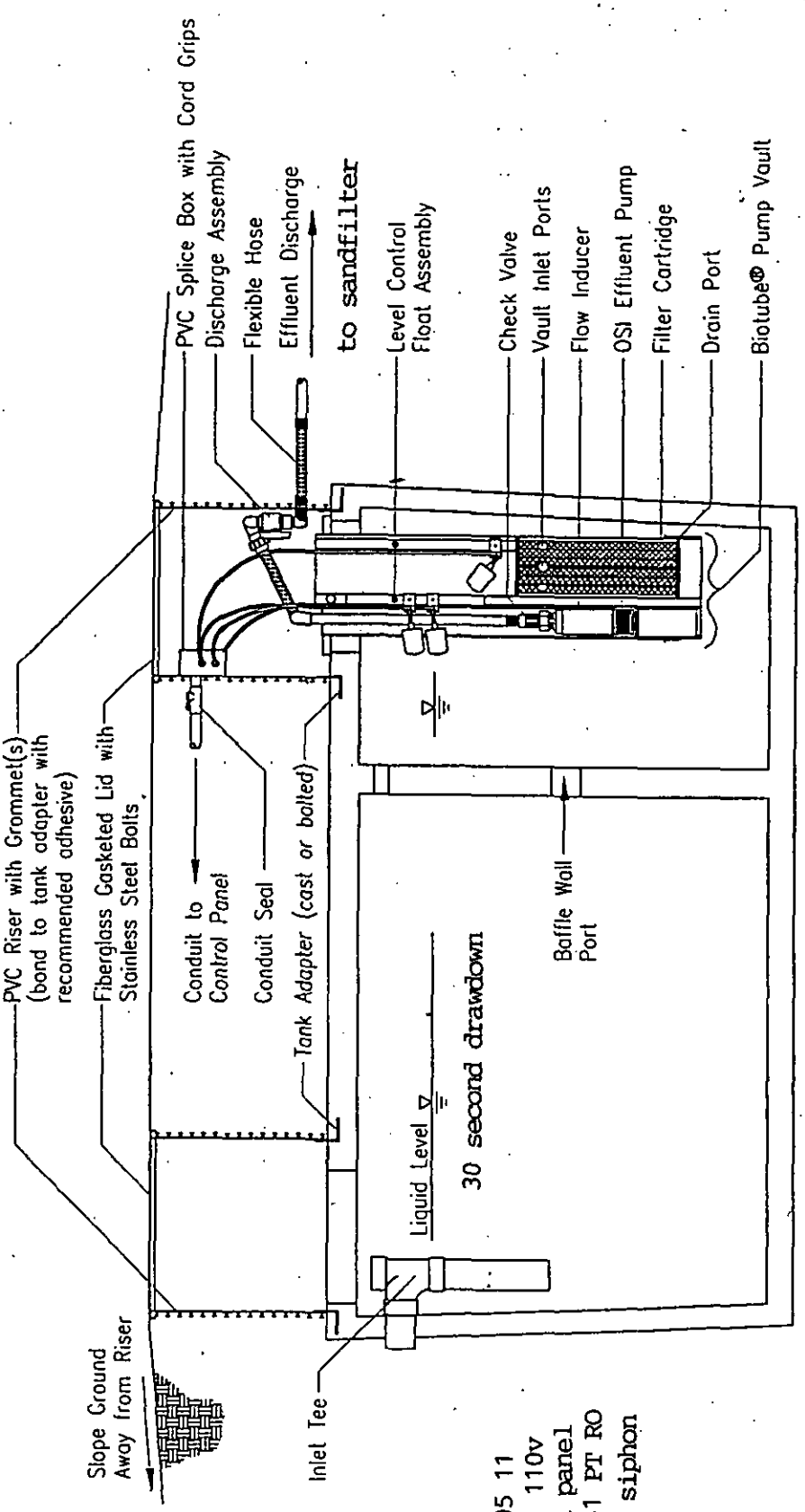
ORCAS SEWAGE DESIGN
P.O. Box 492
EASTSOUND, WASHINGTON 98245
(206) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 4 OF 9
CALCULATED BY DATE
CHECKED BY DATE
SCALE 3530 50029

Effluent Pumping System - Dual Compartment Drawdown

1000 gallon septic tank

Dose: 14 gallons per dose/17-18 per day
Timer setting: 30 seconds "on"
29.5 minutes "off"



Pump:
P30 05 11
1/2 hp, 110v
Control panel
#MVP S-1 PT RO
w/anti siphon
valve

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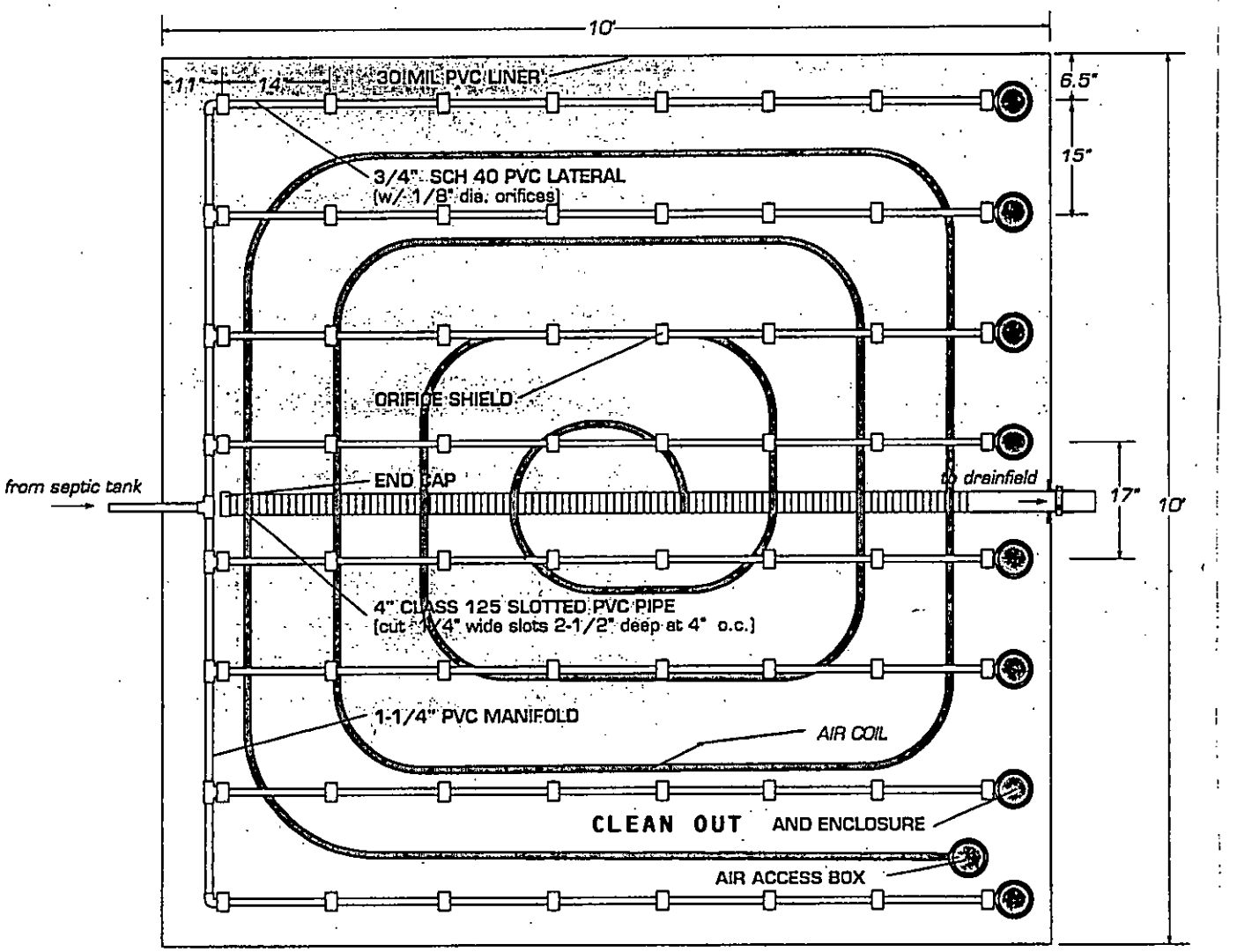
(206) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 5 OF 9
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____ # 3529 50029

10' x 10' FASTRATE SANDFILTER W/GRAVITY DISCHARGE



TOP VIEW

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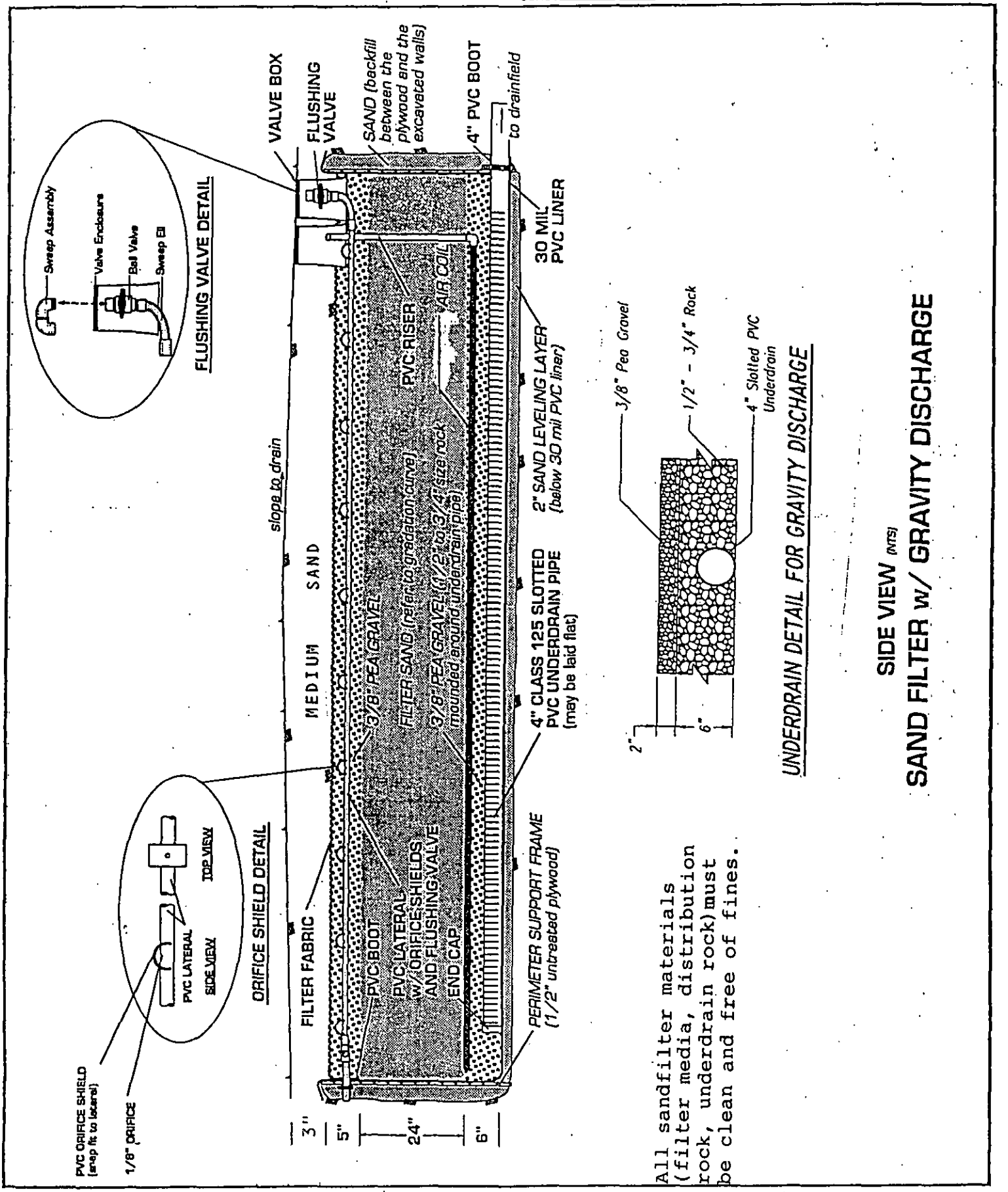
(206) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 6 OF 9
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE 3530 50029



All sandfilter materials (filter media, distribution rock, underdrain rock) must be clean and free of fines.

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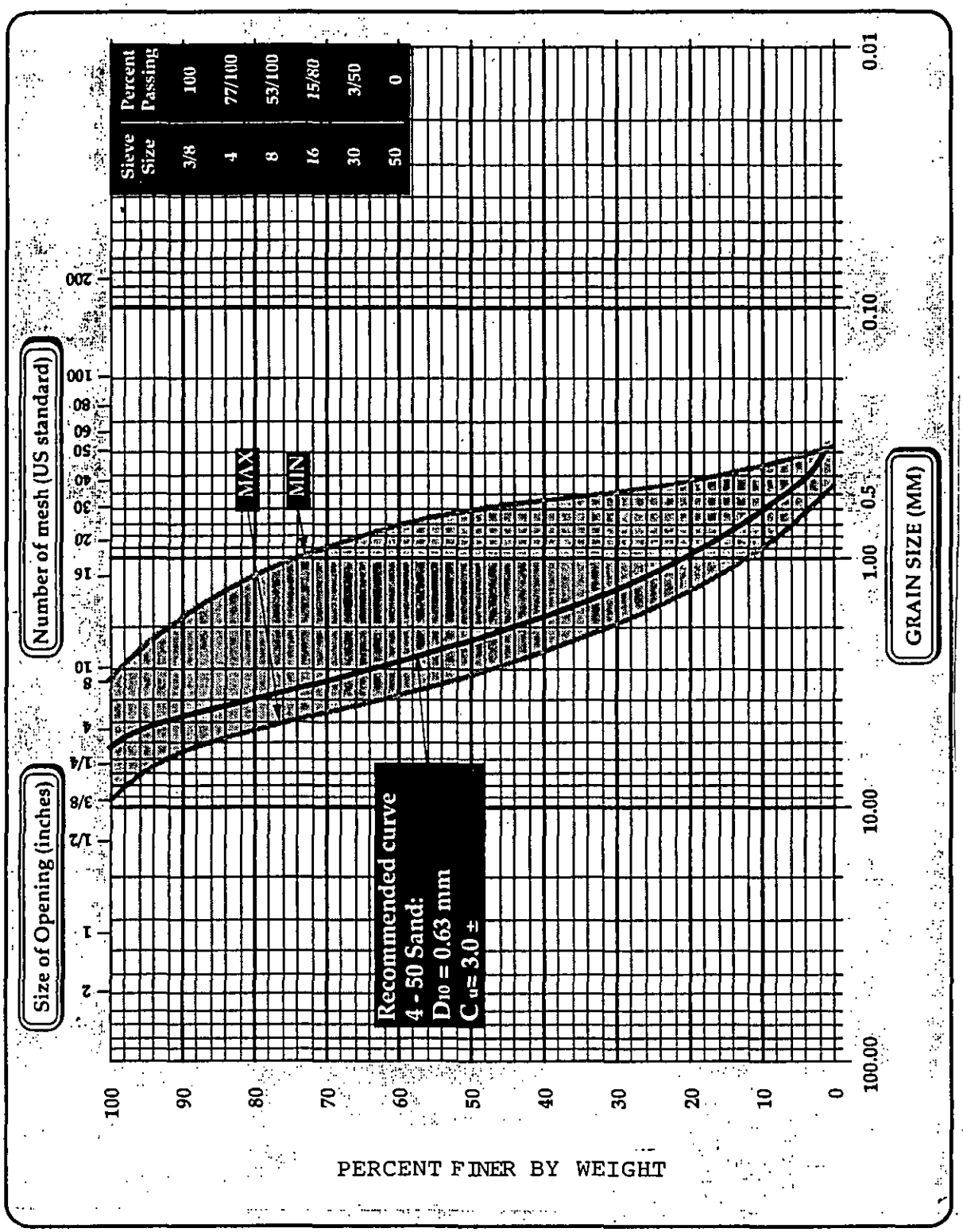
P.O. Box 492
EASTSOUND, WASHINGTON 98245
(206) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 7 OF 9
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____ # 3530 50029

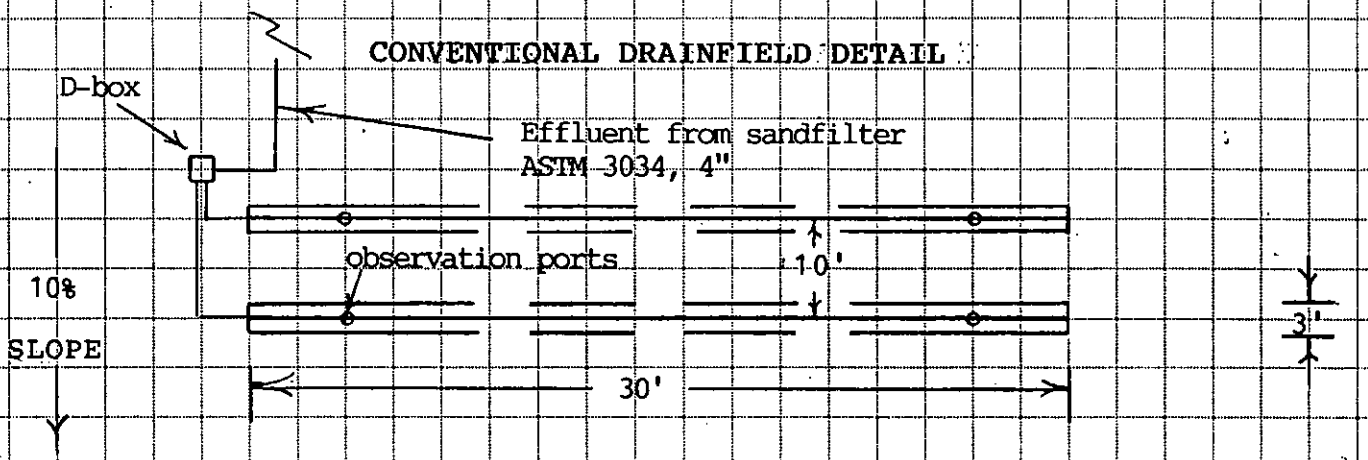


RECOMMENDED SAND GRADATION
FOR INTERMITTENT SAND FILTER SYSTEMS LOADED AT 4 GPD/SQ. FT.

ORCAS SEWAGE DESIGN, INC.
P.O. Box 492
EASTSOUND, WA 98245
(360) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 8 OF - 9
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE _____ # 3530 50029

CONVENTIONAL DRAINFIELD DETAIL



Drainfield:

Gals/day = 240

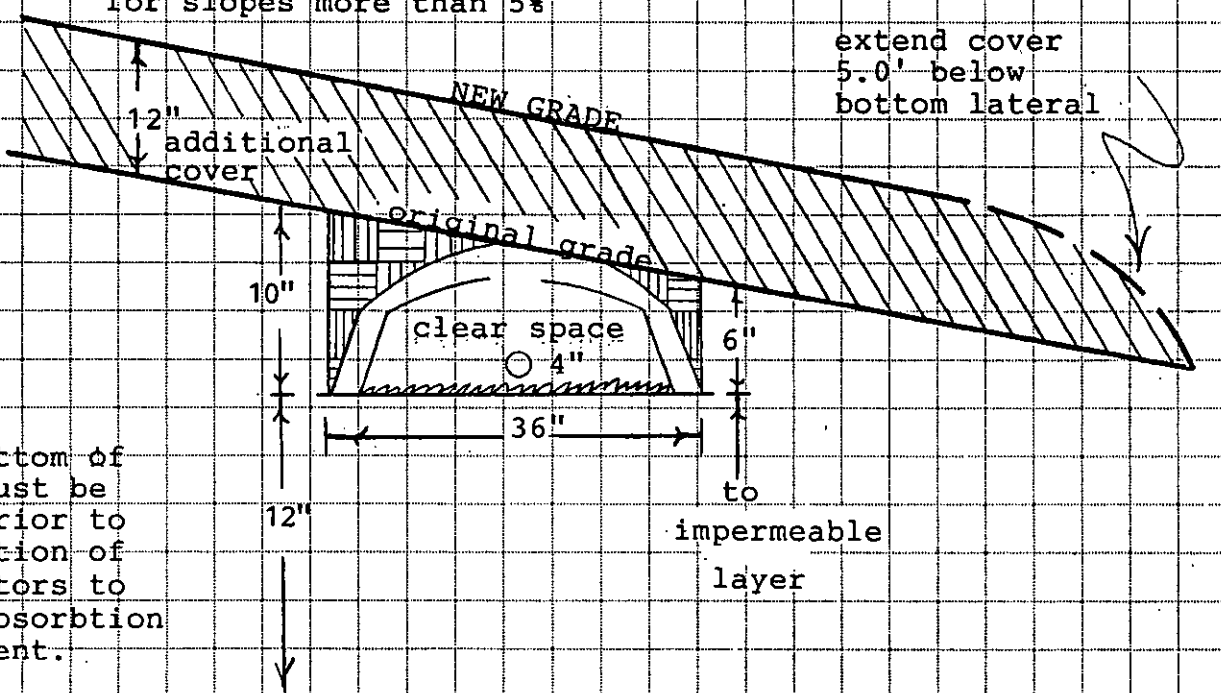
Trench = 3.0'

App. Rate = .60

$$\frac{240}{3.0' \times .60} = \text{rt } 60 \text{ lineal ft.}$$

less 40%
less 50%

Trench Detail :
for slopes more than 5%



Note: Bottom of trench must be tilled prior to installation of infiltrators to insure absorbtion of effluent.

ORCAS SEWAGE DESIGN, INC.
P.O. Box 492
EASTSOUND, WA 98245
(206) 376-2762

JOB Hannah Heights Owners Assco.

SHEET NO. 9 OF 9

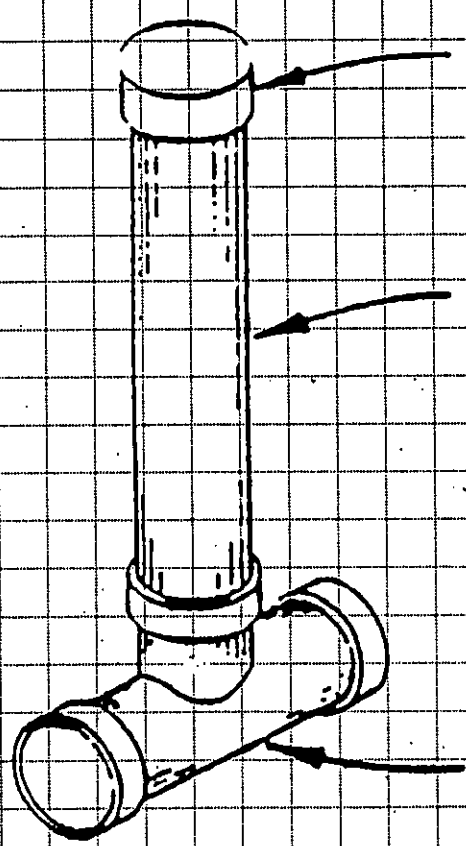
CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE # 3530 50029

Observation Ports

OBSERVATION PORTS MUST BE INSTALLED AT LEAST TWO PLACES ON EACH DRAINFIELD LINE: ONE WITHIN 10 FEET OF THE BEGINNING OF EACH LINE, AND ONE WITHIN 10 FEET OF THE END OF EACH LINE.



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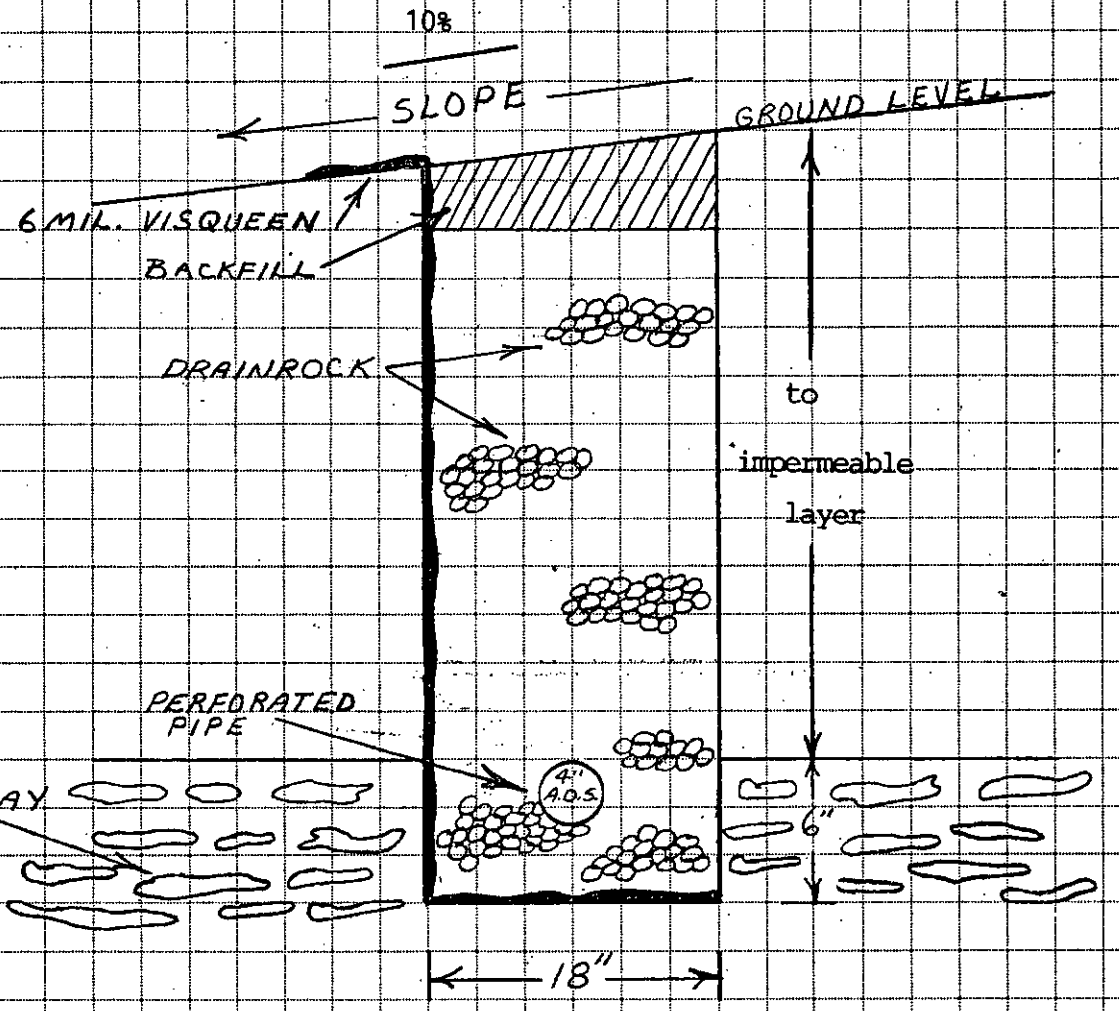
EASTSOUND, WASHINGTON 98245
(206) 376-2762

JOB Hannah Heights Owners Assoc.
SHEET NO. 9a OF 9
CALCULATED BY ____ DATE ____
CHECKED BY ____ DATE ____
SCALE ____ # 3530 50029

CURTAIN DRAIN DETAIL



* INSTALL CURTAIN DRAIN 10' FROM DRAINFIELD ON ALL BOUNDARIES SHOWN. SEE SITE PLAN.

NOTE: CURTAIN DRAIN POLICY PER THE SAN JUAN COUNTY HEALTH DEPT.

"SYSTEM MAY NEED TO BE UPGRADED TO AN ENHANCED TREATMENT SYSTEM IF THE CURTAIN DRAIN FAILS TO PERFORM ADEQUATELY."

Blocks

SAN JUAN COUNTY
SEPTIC SYSTEM INSTALLATION INSPECTION

NAME: Little Mt. Fire station

ADDRESS:

TAX PARCEL NO.: 353050029

DATE: 12/29/04

SYSTEM TYPE: Standard Gravity____ Pressure Distribution____ Sand Filter ✓
Other:

SEPTIC TANK: Size 1000 Installation OK?____ Other (Damage, etc.)____

Acceptable Effluent Filter? ✓

Comments:

PUMP: Model OSI 30

Installation:____

Pressure Test: To be documented OK

Comments:

TIGHT LINE: Run:_____ Connections_____

DISTRIBUTION BOX: Level? ✓ Secured In Place (Concrete, Sand etc.)? ✓

Comments: Speed levelers

DRAINFIELD: Trenches Level? @ ports Trench Depth 6-10" Trench Bottoms OK? Covered
Observation Ports? ✓

Comments:

NOTES:

BY:

Health & Community Services
San Juan County
P.O. Box 607 ◆ 145 Rhone, Friday Harbor, WA 98250
Phone: (360) 378-4474 Fax: (360) 378-7036

SEWAGE INSTALLATION PERMIT
TO INSTALL, REPAIR OR ALTER AN ON-SITE SEWAGE SYSTEM

Unlawful to Alter or Deface this Permit
POST ON JOB SITE
NON-TRANSFERABLE

RECEIVED
MAR 02 2005
HEALTH & COMMUNITY SERVICES

Permit No.: 04-COC-358A
Design No.: 2003-125-00
Fee: 75.00 Date Paid: 1-31-5
Date Permit Issued: 12-23-4
Expires: 90 days from date issued

PARCEL TAX NUMBER: 3530-50029

Applicant's Name: Little Mtn fire house Phone:
Site Address: Corner of Bailer Hill Rd and Straitsview Drive lot # 29
Designer: Rick Petio Phone:

1. The installer must perform all work in accordance with San Juan County Code.
2. **Occupancy of the building and use of the sewage disposal system are prohibited until an as-built is submitted to and approved by the health department.**

System Site Prep: Designer: Date:
Mound Bed Prep: Designer: Date:
Pressure Test: Designer: Date:
E. H. S. Date: 12-27-04

DO NOT BACKFILL (COVER) SYSTEM UNTIL BOTH DESIGNER AND THE HEALTH DEPARTMENT (E.H.S.) HAVE (OK'd) TO BACKFILL.

OK To Backfill ___ Disapproved ___ Date ___ Corrections Required ___
Designer ___
OK To Backfill ✓ Disapproved ___ Date 12-27-04
E.H.S. ___

I Thad Cochran, Installer was present at the above property supervising placement of the final cover. Time 1:30 Pm Date 12-26-04

I have complied with all the restrictions and recommendations as listed by the system designer. I certify that all work was done under my supervision and according to prevailing community standards of workmanship.

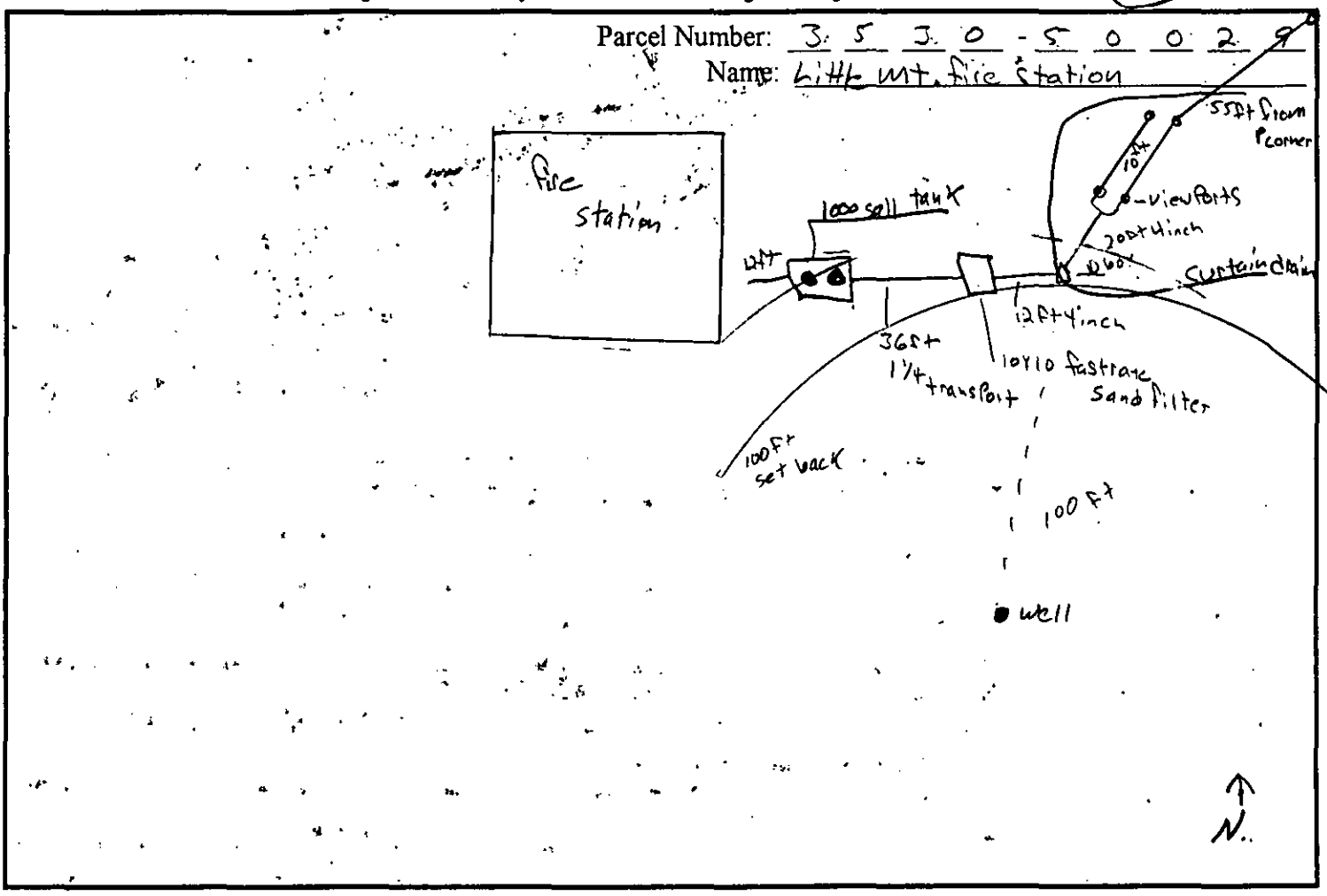
Name of Licensed Installer (Please Print) Thad Cochran
Installer Signature: Thad Cochran Date 2-11-05

AS-BUILT

Plot Plan: Attach or draw in the space provided below a scaled plot plan that indicates a diagram showing location of system (septic tank, pump chamber, treatment component(s) and drainfield) in relation to house(s), property lines, wells, streams, ditches, curtain drains, and embankments. Use a north seeking arrow. Note any deviations from the original design. SCALE FROM 1 - 20 TO (1 - 50)

Parcel Number: 3 5 3 0 - 5 0 0 2 9

Name: Lilli Mt. fire Station



Installer As-Built Checklist: 1 = 50

		Yes	No	N/A
A.	Septic Tank and Pump Chamber			
1.	The septic tank baffles and partition wall are intact and in working order?	✓	—	—
2.	Septic tank size (gallons): 1,000 Pump Chamber (gallons):			
3.	An effluent filter or pump screen (circle one) was installed? Make: Orenco	✓	—	—
4.	Risers installed on both compartments of septic tank, over effluent filter and pump chamber?	✓	—	—
B.	Drainfield - ☐ Gravity Distribution ☑ Pressure Distribution			
1.	Drainfield trench or bed bottom installed level and raked?	—	—	✓
2.	Distribution box water leveled?	—	—	✓
3.	Distribution box bedded in (concrete) or sand (circle one)?	✓	—	✓
4.	Observation ports installed?	✓	—	—
5.	Total Dynamic Head in Feet (if applicable):			
C.	Treatment Component - ☑ Sand Filter ☐ Other:			
1.	Timer Installed?	—	—	—
2.	Timer settings: Pump on (seconds): Pump off (mins or hrs):			
3.	Total Dynamic Head in Feet (if applicable):			

THIS FORM IS REQUIRED TO PROPERLY FILLED OUT AND SUBMITTED TO SAN JUAN COUNTY HEALTH AND COMMUNITY SERVICES WITHIN TEN (10) DAYS OF COMPLETING ANY INSTALLATIONS (SJC 13.04.110). I hereby certify that I have read the information submitted in this document and know the same to be true and correct: All provisions of laws and ordinances governing this project will be complied with whether specified herein or not.

INSTALLER SIGNATURE: _____ DATE: 2-26-05

☒ APPROVED ☐ DISAPPROVED: _____ DATE 03-03-05

APPROVED TO CONSTRUCT
PER STATE BUILDING CODES
AS REQUIRED BY RCW 19.27.031
SUBJECT TO FIELD INSPECTION
AND CORRECTION

JUL 09 2010

SJC BUILDING DIVISION

by the 2001

eated spaces.
alls.

ontact concrete.

ole insulated

ruction air and a floor

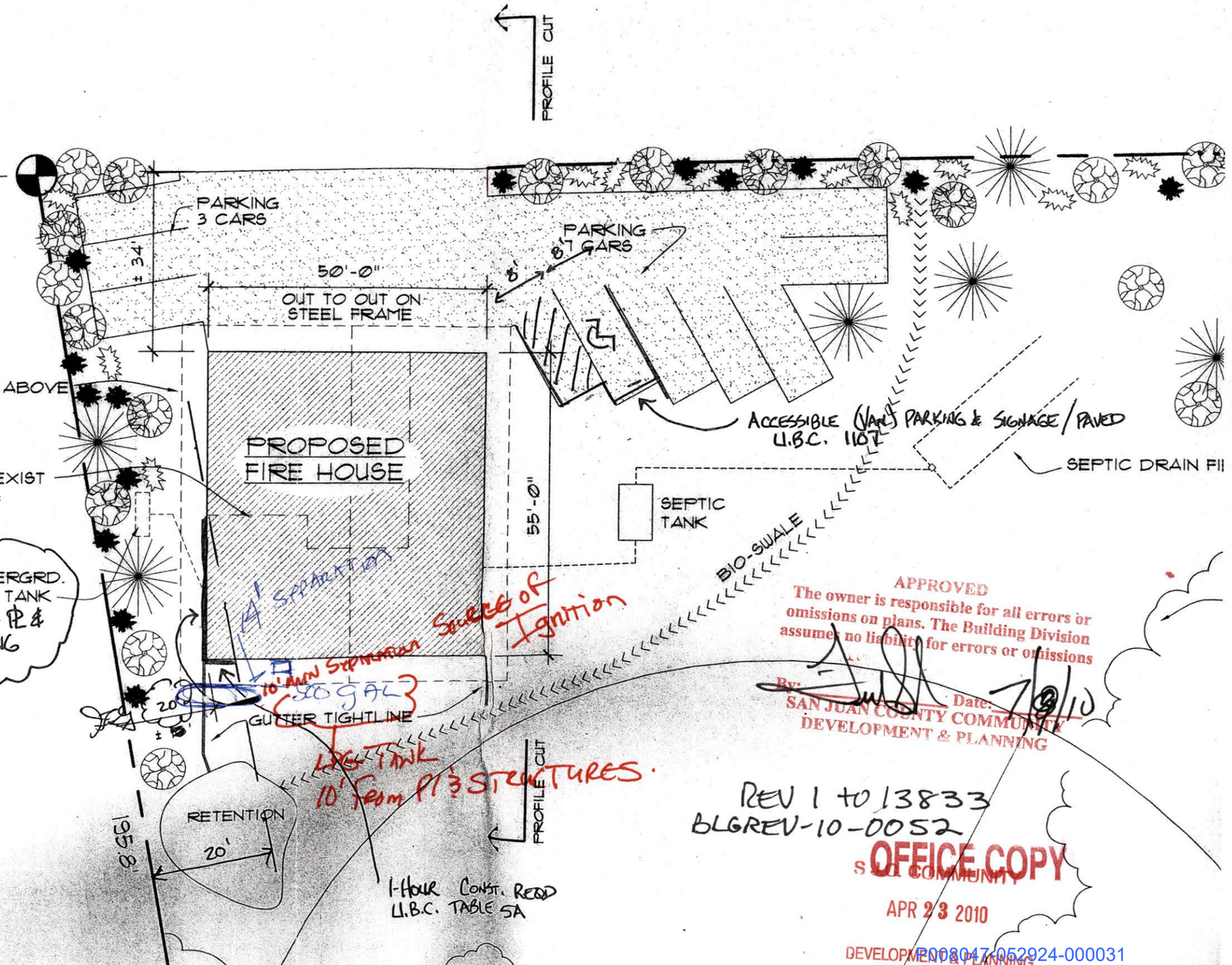
sult w/ Designer

e site before starting
anelone.
om and against any
property caused by negligences

mported material in 6" lifts

TABLE 16K U.B.C.
ESSENTIAL FACILITIES
OK ENGINEERING IS CORRECT.

00 PSI
or on thoroughly compacted fill (95
olutely prevent frost heave.

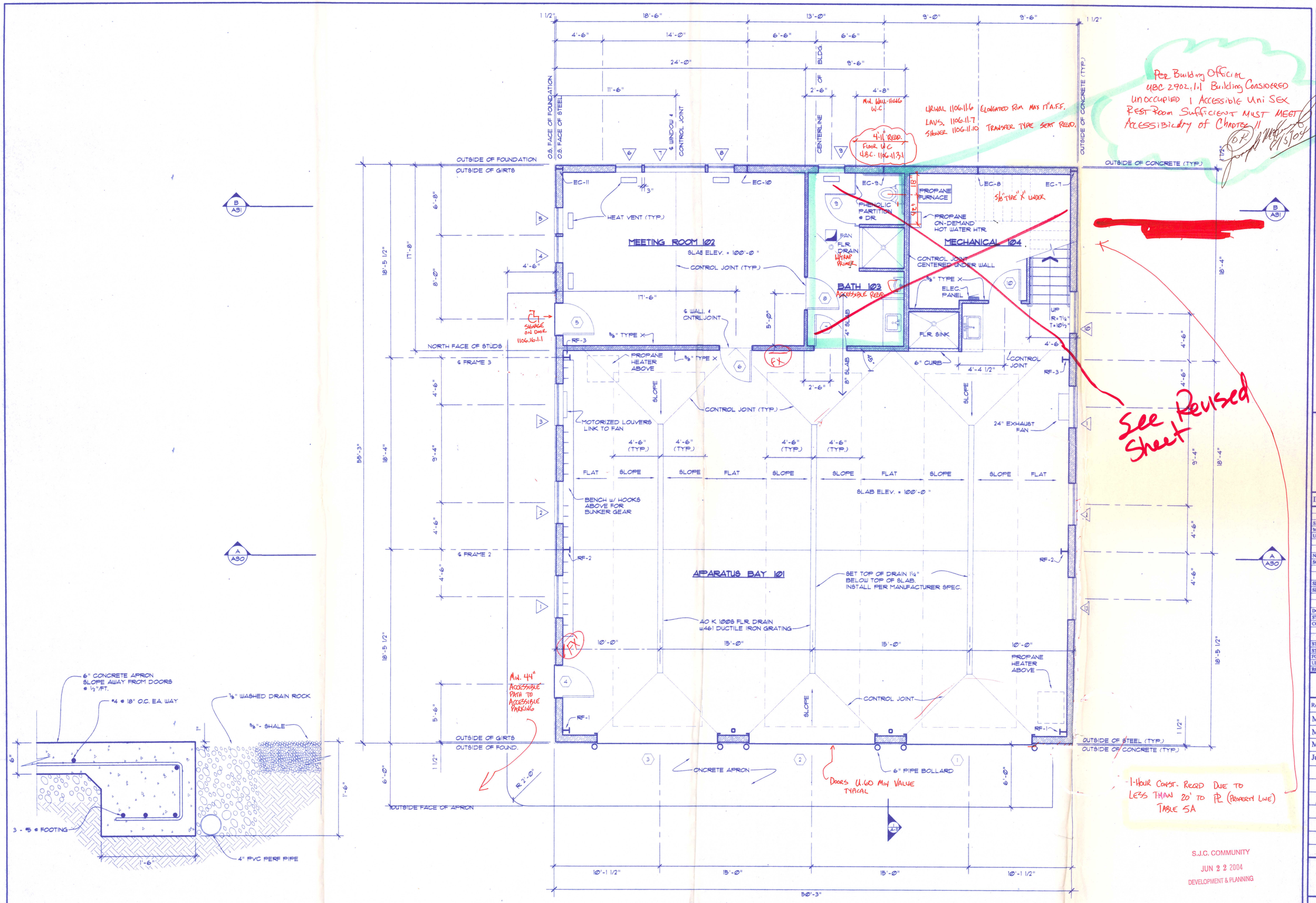


APPROVED
The owner is responsible for all errors or omissions on plans. The Building Division assumes no liability for errors or omissions
By: Date: 7/8/10
SAN JUAN COUNTY COMMUNITY DEVELOPMENT & PLANNING

REV 1 to 13833
BLGREV-10-0052

OFFICE COPY
S.J.C. COMMUNITY
APR 23 2010
DEVELOPMENT & PLANNING

P008047-052924-000031



1 DRAINAGE @ APRON
SCALE: 1 1/2" = 1'-0"

MAIN LEVEL FLOOR PLAN
SCALE: 1/4"=1'-0"

S.J.C. COMMUNITY
JUN 22 2004
DEVELOPMENT & PLANNING

FIRE STATION 33

Job # 0404

Designed By:
Guard & Associates, Inc.
60 First Street P.O.B. 1345
Friday Harbor, Wa. 98250
Phone & Fax: 360-378-5453

SAN JUAN COUNTY FIRE DISTRICT #3
1011 MULLIS STREET
FRIDAY HARBOR, WASHINGTON 98250
Phone: 360-378-5334

INDEX TO DRAWINGS

DATE: March 8, 2004

Revisions:
- March 24, 2004
- May 6, 2004
- May 24, 2004
- June 15, 2004

APPROVED TO CONSTRUCT
PER STATE BUILDING CODES
AS REQUIRED BY RCW 19.27.031
SUBJECT TO FIELD INSPECTION
AND CORRECTION

AUG 05 2004

SJC BUILDING DIVISION

MAIN LEVEL FLOOR PLAN

A-11

TYPICAL EXTERIOR WALL CONSTRUCTION

HARDIPLANK SIDING
30# FELT OR APPROVED ALTERNATE
½" CDX, FLY WOOD
2½"x8" STEEL GIRTS. SEE R&M ENGINEERING FOR LOCATIONS.
STEEL "W" FRAME MEMBERS @ 18'-4" o.c.
R-21 INSULATION
INTERIOR FINISH VARIES, SEE ROOM FINISH SCHEDULE, SHT. A-40
PROVIDE STUDS @ 24" o.c. TO SUPPORT INTERIOR FINISH

TYPICAL ROOF CONSTRUCTION

METAL ROOFING
30# FELT OR APPROVED ALTERNATE, WIRED TO PREVENT SAG
2½"x8" STEEL PURLINS PER R&M ENGINEERING
R-30 FIBERGLASS INSULATION
⅜" T 1-11, 6 PATCH OR BTR. w/ 4" GROOVES @ ALL OVERHANGS

SEE R & M ENGINEERING

RF-2 SEE R&M ENGINEERING

2X10 FASCIA

CONT. SCREENED VENT @ T-1-11 SOFFIT

4'-0" TYP. @ EAVE

9"

FINISH FLOOR

TYPICAL FLOOR @ APPARATUS BAY

8" CONCRETE SLAB TAPERED TO 6¾" @ DRAINS w/ FIBER MESH & #4 BAR @ 18" O.C. EA. WAY
PLACE BAR IN BOTTOM THIRD OF SLAB
2" RIGID INSULATION 4' IN FROM PERIMETER
6" WASHED GRAVEL (COMPACTED)
"MOISTOP" VAPOR BARRIER

ACO K 1008
4" TRENCH DRAIN SYSTEM
INSTALL PER MFGR'S RECOMMENDATIONS.
ASSUMED TO DRAIN TO DAYLIGHT - IF TO SEPTIC THEN TRAP PRIMER IS REQ'D.
OIL/WATER SEPERATOR

4'-6"

SLOPE DN. 1¼"

@ FLR. DRAIN

1 1/4"

⅜" WASHED GRAVEL TO FIN. GRADE

NOTE:
RUN PERIMETER GRAVEL TO FIN. GRADE

FLASH

INSUL. REQ'D

2" EXPD. P.I.D.

NON-SHRINK GROUT "MASTERFLOW 928" OR EQ.

SEE DTL F-1
ON MT. VIEW SHT F-2

SEE DTL F-2
ON MT. VIEW SHT F-2

APPROVED TO CONSTRUCT
PER STATE BUILDING CODES
AS INDICATED BY RCW 19.27.031
SUBJECT TO FIELD INSPECTION
AND CORRECTION

AUG 05 2004

SJC BUILDING DIVISION

S.J.C. COMMUNITY
JUN 22 2004
DEVELOPMENT & PLANNING

SECTION A-A
SCALE: 1/2"=1'-0"

FIRE STATION 33

Job # 0404

Designed By:
Guard & Associates, Inc.
60 First Street P.O.B. 1345
Friday Harbor, Wa. 98250
Phone & Fax: 360-378-5153

SAN JUAN COUNTY FIRE DISTRICT #3
1011 MULLIS STREET
FRIDAY HARBOR, WASHINGTON 98250
Phone: 360-378-5334

INDEX TO DRAWINGS

DATE: March 8, 2004

Revisions:
March 24, 2004
May 6, 2004
May 25, 2004
June 15, 2004

SECTION A-A

A-30

P008047-052924-000118

Attachment C

Homeowner Provided Laboratory Reports

GeoEngineers Unique ID: P-2

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0249
Project: Friday Harbor Sampling
Reported: 5/24/2023 13:47

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0249-01
Collect Date: 05/02/23 17:10
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-24901

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	10.7	ng/L	2.00	2	10		5/11/23 18:39	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	9.64	ng/L	2.00	2	15		5/11/23 18:39	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	48.6	ng/L	2.00	2	65		5/11/23 18:39	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	42.1	ng/L	2.00	2	9		5/11/23 18:39	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	22.5	ng/L	2.00	2	345		5/11/23 18:39	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	18.3	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	42.8	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	19.3	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0249
Project: Friday Harbor Sampling
Reported: 5/24/2023 13:47

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0249-01
Collect Date: 05/02/23 17:10
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-24901

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	60.4	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	13.2	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 18:39	MER	EPA 533	

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0249
Project: Friday Harbor Sampling
Reported: 5/24/2023 13:47

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0249-02
Collect Date: 05/02/23 17:10
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen Faucet Field Blank
Matrix: Drinking Water

Lab/Sample Number: 125-24902

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/12/23 7:03	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/12/23 7:03	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/12/23 7:03	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/12/23 7:03	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/12/23 7:03	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0249
Project: Friday Harbor Sampling
Reported: 5/24/2023 13:47

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0249-02
Collect Date: 05/02/23 17:10
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen Faucet Field Blank
Matrix: Drinking Water

Lab/Sample Number: 125-24902

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 7:03	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELA

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anatekl
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anate

MDE0249

Due: 05/19/23

Washington Chain of Custody - Drinking Wate

WATER SYSTEM	private well	Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/2/2023 1710

Sampler Name: [redacted]

Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required): kitchen faucet

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number:_____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s_____
- ☐ Blended Sample (96) List source #'s_____

Receiving Check List

- ☐ Received Intact
- ☐ No Headspace
- ☐ Labels & Chains Agree
- ☐ Temp: _____
- ☐ Ice/Ice-Packs Present:_____
- ☐ Custody Seals Present:_____
- ☐ Preservatives:_____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	DA
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	1024 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: [redacted]

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: _____ Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: Bubble Wrap (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.7 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 3				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH after details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	(N/A)		
VOC Trip Blanks Present?	Yes	No	(N/A)		

Record preservatives (and lot numbers, if known) for containers below:

P250 NH_4Ac x 3

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [signature] Date/Time: 10:24 5/5/23

Form F19.01 - Eff 1 Dec 2022

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-02
Collect Date: 05/03/23 18:00
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24602

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/11/23 15:39	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/11/23 15:39	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/11/23 15:39	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/11/23 15:39	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/11/23 15:39	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-02
Collect Date: 05/03/23 18:00
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24602

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredited

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA# ID00013
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EPA# WA00169

Washington Chain of Custody - Drinking Water Analysis

WATER SYSTEM		Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/3/2023 1800

Sampler Name: [redacted]

Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required) [redacted]

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number: _____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s _____
- ☐ Blended Sample (96) List source #'s _____

Receiving Check List

- ☐ Received Intact ☐ No Headspace
- ☐ Labels & Chains Agree ☐ Temp: _____
- ☐ Ice/Ice-Packs Present: _____
- ☐ Custody Seals Present: _____
- ☐ Preservatives: _____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	Sample is labeled [redacted] Also has MS + MSD (18:05)
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature: [redacted] Received By: DA

Shipping/Delivery Date: 5/4/2023 Date/Time Rec'd: 10:47 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

GeoEngineers Unique ID: P-4_01

ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

WSDOE Lab C567

DATA REPORT

Client Name: [redacted]
Friday Harbor, WA 98250

Reference Number: **23-11390**
Project: [redacted]

Lab Number: 22799
Field ID:
Sample Description: [redacted]
Matrix: Drinking Water
Sample Date: 4/20/23
Extraction Date:
Extraction Method:

Report Date: 5/5/23
Date Analyzed: 5/1/23
Analyst: JSF
Analytical Method: 537.1
Batch: PACEFL_230501
Approved By: mcs

Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
	Perfluorinated Compounds								
763051-92-9	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONATE	**ND**		ng/L	1.8	1.4	1.00		Analyzed by Pace - FL
13252-13-6	2,3,3,3-TETRAFLUORO-2-(1,1,2,2,3,3,3-EPTAFLUOROPROPOXY)-PROPANOIC ACID (GENX)	**ND**		ng/L	1.8	1.5	1.00		
919005-14-4	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (DONA, ADONA)	**ND**		ng/L	1.8	0.65	1.00		
756426-58-1	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (F-53B MAJOR)	**ND**		ng/L	1.8	1.0	1.00		
2991-50-6	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (NETFOSAA)	**ND**		ng/L	1.8	0.84	1.00		
2355-31-9	N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (NMEFOSAA)	**ND**		ng/L	1.8	1.4	1.00		
375-73-5	PERFLUOROBUTANESULFONIC ACID (PFBS)	**4.6**		ng/L	1.8	0.596	1.00		
335-76-2	PERFLUORODECANOIC ACID (PFDA)	**ND**		ng/L	1.8	0.87	1.00		
307-55-1	PERFLUORODODECANOIC ACID (PFDOA)	**ND**		ng/L	1.8	1.3	1.00		
375-85-9	PERFLUOROHEPTANOIC ACID (PFHPA)	**ND**		ng/L	1.8	0.91	1.00		
355-46-4	PERFLUOROHEXANESULFONIC ACID (PFHXS)	**10.4**		ng/L	1.8	0.596	1.00		
307-24-4	PERFLUOROHEXANOIC ACID (PFHXA)	**2.0**		ng/L	1.8	0.596	1.00		
375-95-1	PERFLUORONONANOIC ACID (PFNA)	**ND**		ng/L	1.8	1.8	1.00		
1763-23-1	PERFLUOROOCTANESULFONIC ACID (PFOS)	**ND**		ng/L	1.8	1.1	1.00		
335-67-1	PERFLUOROOCTANOIC ACID (PFOA)	**0.86**	J	ng/L	1.8	0.596	1.00		
376-06-7	PERFLUOROTETRADECANOIC ACID (PFTEDA)	**ND**		ng/L	1.8	1.7	1.00		
72629-94-8	PERFLUOROTRIDECANOIC ACID (PFTRDA)	**ND**		ng/L	1.8	1.6	1.00		

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Permit QL = Quantitation Limt required by permit (listed in Appendix A) or other regulatory requirement.
D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt

Reference Number: **23-11390**
Lab Number: 22799
Report Date: 5/5/23

Lab Number: 22799
Field ID:
Sample Description: [redacted]
Matrix: Drinking Water
Sample Date: 4/20/23
Extraction Date:
Extraction Method:

Report Date: 5/5/23
Date Analyzed: 5/1/23
Analyst: JSF
Analytical Method: 537.1
Batch: PACEFL_230501
Approved By: mcs

CAS	Compound	RESULT	Flag	UNITS	Lab QL	MDL	D.F.	Lab	COMMENT
2058-94-8	PERFLUOROUNDECANOIC ACID (PFUDA)	**ND**		ng/L	1.8	1.8	1.00		Analyzed by Pace - FL

Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.
Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
Permit QL = Quantitation Limt required by permit (listed in Appendix A) or other regulatory requirement.
D.F. - Dilution Factor.

May 31, 2023 Service Request No:K2305184

[redacted]
Friday Harbor, WA 98250

Laboratory Results for: [redacted]

Dear ,

Enclosed are the results of the sample(s) submitted to our laboratory May 05, 2023
For your reference, these analyses have been assigned our service request number **K2305184.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3377. You may also contact me via email at Sydney.Wolf@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Sydney A. Wolf
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2305184
Date Received: 05/05/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 05/05/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD) with this sample batch. A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

The lower control criterion was exceeded for the internal standard 13C2-PFOA in the original run of sample Hannah Heights #2. The sample was reanalyzed; the internal standard was within control criteria in the reanalysis. The reanalysis confirmed the reported results for the native analytes, but several surrogates were biased high in the reanalysis as noted below. The results from the reanalysis are reported. The sample was not re-extracted because the holding time had already elapsed. No further corrective action was taken.

The upper control criterion was exceeded for 13C2-PFHxA, 13C2-PFDA, and 13C3-HFPO-DA in sample Hannah Heights #2. One or more target analytes was detected above the Method Reporting Limit (MRL) in the sample. The sample was not re-extracted because the holding time had already elapsed. No further corrective action was taken.

Approved by Sydney A Wolfe Date 05/31/2023

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: [redacted]	Lab ID: K2305184-001					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Perfluorobutane sulfonic acid (PFBS)	4.3			0.84	ng/L	537.1
Perfluoroheptanoic acid (PFHpA)	0.84			0.84	ng/L	537.1
Perfluorohexane sulfonic acid (PFHxS)	12			0.84	ng/L	537.1
Perfluorohexanoic acid (PFHxA)	2.4			0.84	ng/L	537.1
Perfluorononanoic acid (PFNA)	1.1			0.84	ng/L	537.1
Perfluorooctane sulfonic acid (PFOS)	2.6			0.84	ng/L	537.1
Perfluorooctanoic acid (PFOA)	1.2			0.84	ng/L	537.1

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: [redacted]
Project:

Service Request:K2305184

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2305184-001	[redacted]	5/4/2023	0916

ALS Environmental

CHAIN OF CUSTODY
130376

001

SR#_____

COC Set_____of_____

COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

K23O5184

Project Name [redacted] ct Number:

Project Manager [redacted]

Company [redacted]

Address [redacted]

Phone # [redacted] email: [redacted]

Sampler Signature [redacted]

CLIENT SAMPLE ID	LABID	SAMPLING Date	Time	Matrix	NUMBER OF CONTAINERS	14D 537.1 / PFAS-DW_537.1	1	2	3	4	5	Remarks
1. [redacted]		5.4.23	916	H2O	2							
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

___ III. CLP Like Summary (no raw data)

___ IV. Data Validation Report

___ V. EDD

Invoice Information

P.O.#_____

Bill To:_____

Turnaround Requirements

____ 24 hr. ____ 48 hr.

____ 5 Day

____ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other_____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Kaitlyn Mitolo	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm [redacted]	Firm	Firm	Firm	Firm
Date/Time	Date/Time 5/5/23 1312	Date/Time	Date/Time	Date/Time	Date/Time

PM SW

Cooler Receipt and Preservation Form

Client [redacted] Service Request K23 05184

Received: 5/5/23 Opened: 5/5/23 By: VM Unloaded: 5/5/23 By: VM

1. Samples were received via? (USPS) Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) (Cooler) Box Envelope Other _____ NA
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
2.8		IR02				EJ134327883US	

4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA (Y) N
   If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. (NA) Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* (Baggies) (Bubble Wrap) *Gel Packs* (Wet Ice) *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y (N)
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM (NA) Y N
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: COC not signed by client

Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client: [redacted]
Project:

Service Request: K2305184

Sample Name: [redacted]
Lab Code: K2305184-001
Sample Matrix: Water

Date Collected: 05/4/23
Date Received: 05/5/23

Analysis Method	Extracted/Digested By	Analyzed By
537.1	LILLIANSMITH	LILLIANSMITH

Sample Name: [redacted]
Lab Code: K2305184-001.R01
Sample Matrix: Water

Date Collected: 05/4/23
Date Received: 05/5/23

Analysis Method	Extracted/Digested By	Analyzed By
537.1	LILLIANSMITH	LILLIANSMITH

Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Organic Compounds by HPLC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Analytical Report

Client:	[redacted]	**Service Request:**	K2305184
Project:		**Date Collected:**	05/04/23 09:16
Sample Matrix:	Water	**Date Received:**	05/05/23 13:12
Sample Name:	[redacted]	**Units:**	ng/L
Lab Code:	K2305184-001	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	**4.3**	0.84	1	05/24/23 02:48	5/11/23	
Perfluorohexane sulfonic acid (PFHxS)	**12**	0.84	1	05/24/23 02:48	5/11/23	
Perfluorooctane sulfonic acid (PFOS)	**2.6**	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	**2.4**	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroheptanoic acid (PFHpA)	**0.84**	0.84	1	05/24/23 02:48	5/11/23	
Perfluorooctanoic acid (PFOA)	**1.2**	0.84	1	05/24/23 02:48	5/11/23	
Perfluorononanoic acid (PFNA)	**1.1**	0.84	1	05/24/23 02:48	5/11/23	
Perfluorodecanoic acid (PFDA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluorododecanoic acid (PFDOA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.84	1	05/24/23 02:48	5/11/23	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.84	1	05/24/23 02:48	5/11/23	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.84	1	05/24/23 02:48	5/11/23	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.84	1	05/24/23 02:48	5/11/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	131	70 - 130	05/24/23 02:48	*
13C2-PFDA	142	70 - 130	05/24/23 02:48	*
D5-EtFOSAA	122	70 - 130	05/24/23 02:48	
13C3-HFPO-DA	133	70 - 130	05/24/23 02:48	*

QC Summary Forms

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Organic Compounds by HPLC/MS/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: [redacted] **Service Request:** K2305184

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	13C2-PFDA 70 - 130	13C2-PFHxA 70 - 130	13C3-HFPO-DA 70 - 130
[redacted]	K2305184-001	142 *	131 *	133 *
Method Blank	KQ2308375-03	109	98	92
Low Level Lab Control Sample	KQ2308375-04	108	94	93
Low Level Duplicate Lab Control Sample	KQ2308375-05	121	104	105

Client: [redacted] **Service Request:** K2305184

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	D5-EtFOSAA 70 - 130
[redacted]	K2305184-001	122
Method Blank	KQ2308375-03	98
Low Level Lab Control Sample	KQ2308375-04	109
Low Level Duplicate Lab Control Sample	KQ2308375-05	116

Analytical Report

Client:	[redacted]	**Service Request:**	K2305184
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2308375-03	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorododecanoic acid (PFDOA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.0	1	05/12/23 19:39	5/11/23	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.0	1	05/12/23 19:39	5/11/23	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.0	1	05/12/23 19:39	5/11/23	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.0	1	05/12/23 19:39	5/11/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	98	70 - 130	05/12/23 19:39	
13C2-PFDA	109	70 - 130	05/12/23 19:39	
D5-EtFOSAA	98	70 - 130	05/12/23 19:39	
13C3-HFPO-DA	92	70 - 130	05/12/23 19:39	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	[redacted]	**Service Request:**	K2305184
Project:		**Date Analyzed:**	05/12/23
Sample Matrix:	Water	**Date Extracted:**	05/11/23

Lab Control Sample Summary

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method:	537.1	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	804081

KQ2308375-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	1.06	1.00	106	50-150
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	1.09	1.00	109	50-150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	1.12	1.00	112	50-150
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.956 J	1.00	96	50-150
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.11	1.00	111	50-150
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.08	1.00	108	50-150
Perfluorobutane sulfonic acid (PFBS)	1.00	1.00	100	50-150
Perfluorodecanoic acid (PFDA)	1.04	1.00	104	50-150
Perfluorododecanoic acid (PFDOA)	0.980 J	1.00	98	50-150
Perfluoroheptanoic acid (PFHpA)	1.10	1.00	110	50-150
Perfluorohexane sulfonic acid (PFHxS)	1.20	1.00	120	50-150
Perfluorohexanoic acid (PFHxA)	1.04	1.00	104	50-150
Perfluorononanoic acid (PFNA)	1.30	1.00	130	50-150
Perfluorooctane sulfonic acid (PFOS)	1.13	1.00	113	50-150
Perfluorooctanoic acid (PFOA)	1.16	1.00	116	50-150
Perfluorotetradecanoic acid (PFTDA)	1.03	1.00	103	50-150
Perfluorotridecanoic acid (PFTrDA)	0.916 J	1.00	92	50-150
Perfluoroundecanoic acid (PFUnDA)	1.02	1.00	102	50-150

Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2305184
Date Analyzed: 05/12/23
Date Extracted: 05/11/23

Duplicate Lab Control Sample Summary
Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Units: ng/L
Basis: NA
Analysis Lot: 804081

	Low Level Lab Control Sample KQ2308375-04			Low Level Duplicate Lab Control Sample KQ2308375-05					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	1.06	1.00	106	1.06	1.00	106	50-150	<1	50
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	1.09	1.00	109	1.14	1.00	114	50-150	5	50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	1.12	1.00	112	1.24	1.00	124	50-150	10	50
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	0.956 J	1.00	96	1.03	1.00	103	50-150	8	50
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	1.11	1.00	111	1.05	1.00	105	50-150	6	50
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	1.08	1.00	108	1.14	1.00	114	50-150	5	50
Perfluorobutane sulfonic acid (PFBS)	1.00	1.00	100	1.06	1.00	106	50-150	5	50
Perfluorodecanoic acid (PFDA)	1.04	1.00	104	1.23	1.00	123	50-150	17	50
Perfluorododecanoic acid (PFDOA)	0.980 J	1.00	98	1.08	1.00	108	50-150	10	50
Perfluoroheptanoic acid (PFHpA)	1.10	1.00	110	1.16	1.00	116	50-150	5	50
Perfluorohexane sulfonic acid (PFHxS)	1.20	1.00	120	1.25	1.00	125	50-150	4	50
Perfluorohexanoic acid (PFHxA)	1.04	1.00	104	1.13	1.00	113	50-150	9	50
Perfluorononanoic acid (PFNA)	1.30	1.00	130	1.41	1.00	141	50-150	8	50
Perfluorooctane sulfonic acid (PFOS)	1.13	1.00	113	1.22	1.00	122	50-150	8	50
Perfluorooctanoic acid (PFOA)	1.16	1.00	116	1.22	1.00	122	50-150	5	50
Perfluorotetradecanoic acid (PFTDA)	1.03	1.00	103	1.00	1.00	100	50-150	3	50
Perfluorotridecanoic acid (PFTrDA)	0.916 J	1.00	92	0.952 J	1.00	95	50-150	4	50
Perfluoroundecanoic acid (PFUnDA)	1.02	1.00	102	1.21	1.00	121	50-150	16	50

October 23, 2023 Service Request No:K2311245

[redacted]
Friday Harbor, WA 98250

Laboratory Results for: [redacted]

Dear Fritzie,

Enclosed are the results of the sample(s) submitted to our laboratory October 04, 2023
For your reference, these analyses have been assigned our service request number **K2311245.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3377. You may also contact me via email at Sydney.Wolf@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Sydney A. Wolf
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

1317 South 13th Ave, Kelso, WA 98626 | 1-360-577-7222 | www.alsglobal.com

Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2311245
Date Received: 10/04/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

One water sample was received for analysis at ALS Environmental on 10/04/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

No significant anomalies were noted with this analysis.

Approved by Sydney A Wolfe Date 10/23/2023

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: [redacted]	Lab ID: K2311245-001					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Perfluorobutane sulfonic acid (PFBS)	2.5			0.89	ng/L	537.1
Perfluorohexane sulfonic acid (PFHxS)	5.9			0.89	ng/L	537.1
Perfluorohexanoic acid (PFHxA)	1.5			0.89	ng/L	537.1
Perfluorooctane sulfonic acid (PFOS)	1.4			0.89	ng/L	537.1

Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: [redacted]
Project:

Service Request:K2311245

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2311245-001	[redacted]	10/3/2023	0945

ALS Environmental

133313

CHAIN OF CUSTODY
133313

001

1623112 45
SR#_____
COC Set____of____
COC#_____

1317 South 13th Ave, Kelso, WA 98626 Phone (360) 577-7222 / 800-695-7222 / FAX (360) 636-1068
www.alsglobal.com

[redacted]

CLIENT SAMPLE ID	LABID	SAMPLING Date Time State	Matrix	NUMBER OF CONTAINERS	14D 537.1 / PFAS-DW_537.1	1	2	3	4	5	Remarks
1. [redacted]		10/3 945	DW	3	✓						
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

Report Requirements

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
___ III. CLP Like Summary (no raw data)
___ IV. Data Validation Report
___ V. EDD

Invoice Information

P.O.#
Bill To: [redacted]

Turnaround Requirements

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature [signature]	Signature	Signature	Signature	Signature
Printed Name	Printed Name Harleigh Smith	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm [redacted]	Firm	Firm	Firm	Firm
Date/Time	Date/Time 10/4/23 1050	Date/Time	Date/Time	Date/Time	Date/Time

PM SW

Cooler Receipt and Preservation Form

Client [redacted] Service Request K23 11245

Received: 10/4/23 Opened: 10/4/23 By: HS Unloaded: 10/4/23 By: HS

1. Samples were received via? (USPS) Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) (Cooler) Box Envelope Other _____ NA
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 on each side
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
6.4	3.5	IR-06				ET 266181431US	

4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA (Y) N
   If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. (NA) Y N

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* (*Baggies*) (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y (N)
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM (NA) Y N
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: client did not sign COC

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: [redacted]
Project:

Service Request: K2311245

Sample Name: [redacted]
Lab Code: K2311245-001
Sample Matrix: Water

Date Collected: 10/3/23
Date Received: 10/4/23

Analysis Method	Extracted/Digested By	Analyzed By
537.1	GOSEGUERA	LILLIANSMITH

Sample Results

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Organic Compounds by HPLC/MS/MS

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Analytical Report

Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2311245
Date Collected: 10/03/23 09:45
Date Received: 10/04/23 10:50

Sample Name: [redacted]
Lab Code: K2311245-001

Units: ng/L
Basis: NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	**2.5**	0.89	1	10/19/23 16:48	10/16/23	
Perfluorohexane sulfonic acid (PFHxS)	**5.9**	0.89	1	10/19/23 16:48	10/16/23	
Perfluorooctane sulfonic acid (PFOS)	**1.4**	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	**1.5**	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroheptanoic acid (PFHpA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorooctanoic acid (PFOA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorononanoic acid (PFNA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorodecanoic acid (PFDA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorododecanoic acid (PFDOA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.89	1	10/19/23 16:48	10/16/23	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.89	1	10/19/23 16:48	10/16/23	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.89	1	10/19/23 16:48	10/16/23	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.89	1	10/19/23 16:48	10/16/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	105	70 - 130	10/19/23 16:48	
13C2-PFDA	109	70 - 130	10/19/23 16:48	
D5-EtFOSAA	103	70 - 130	10/19/23 16:48	
13C3-HFPO-DA	112	70 - 130	10/19/23 16:48	

QC Summary Forms

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Organic Compounds by HPLC/MS/MS

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Client: [redacted] **Service Request:** K2311245

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	13C2-PFDA 70 - 130	13C2-PFHxA 70 - 130	13C3-HFPO-DA 70 - 130
[redacted]	K2311245-001	109	105	112
Lab Control Sample	KQ2318188-01	108	108	116
Duplicate Lab Control Sample	KQ2318188-02	102	98	104
Method Blank	KQ2318188-03	108	103	111

Client: [redacted] **Service Request:** K2311245

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	D5-EtFOSAA 70 - 130
[redacted]	K2311245-001	103
Lab Control Sample	KQ2318188-01	108
Duplicate Lab Control Sample	KQ2318188-02	98
Method Blank	KQ2318188-03	103

Analytical Report

Client:	[redacted]	**Service Request:**	K2311245
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2318188-03	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorododecanoic acid (PFDOA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.0	1	10/19/23 16:15	10/16/23	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.0	1	10/19/23 16:15	10/16/23	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.0	1	10/19/23 16:15	10/16/23	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.0	1	10/19/23 16:15	10/16/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	103	70 - 130	10/19/23 16:15	
13C2-PFDA	108	70 - 130	10/19/23 16:15	
D5-EtFOSAA	103	70 - 130	10/19/23 16:15	
13C3-HFPO-DA	111	70 - 130	10/19/23 16:15	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	[redacted]	**Service Request:**	K2311245
Project:		**Date Analyzed:**	10/19/23
Sample Matrix:	Water	**Date Extracted:**	10/16/23

Duplicate Lab Control Sample Summary

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method:	537.1	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	821135

	Lab Control Sample KQ2318188-01			Duplicate Lab Control Sample KQ2318188-02					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	20.2	20.0	101	18.2	20.0	91	70-130	10	30
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	22.3	20.0	111	20.6	20.0	103	70-130	8	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	20.2	20.0	101	19.0	20.0	95	70-130	6	30
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	22.3	20.0	111	20.7	20.0	104	70-130	7	30
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	20.3	20.0	102	19.2	20.0	96	70-130	6	30
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	19.6	20.0	98	19.2	20.0	96	70-130	2	30
Perfluorobutane sulfonic acid (PFBS)	19.0	20.0	95	17.7	20.0	88	70-130	7	30
Perfluorodecanoic acid (PFDA)	22.3	20.0	112	21.5	20.0	108	70-130	4	30
Perfluorododecanoic acid (PFDOA)	23.0	20.0	115	21.3	20.0	107	70-130	8	30
Perfluoroheptanoic acid (PFHpA)	21.6	20.0	108	19.6	20.0	98	70-130	10	30
Perfluorohexane sulfonic acid (PFHxS)	19.4	20.0	97	18.1	20.0	90	70-130	7	30
Perfluorohexanoic acid (PFHxA)	20.2	20.0	101	19.1	20.0	96	70-130	6	30
Perfluorononanoic acid (PFNA)	23.6	20.0	118	22.5	20.0	112	70-130	5	30
Perfluorooctane sulfonic acid (PFOS)	19.9	20.0	99	18.8	20.0	94	70-130	5	30
Perfluorooctanoic acid (PFOA)	21.5	20.0	108	20.7	20.0	103	70-130	4	30
Perfluorotetradecanoic acid (PFTDA)	22.5	20.0	112	20.7	20.0	103	70-130	8	30
Perfluorotridecanoic acid (PFTrDA)	21.9	20.0	109	20.5	20.0	103	70-130	6	30
Perfluoroundecanoic acid (PFUnDA)	22.5	20.0	113	21.1	20.0	105	70-130	7	30

March 14, 2024 Service Request No:K2402483

[redacted]
Friday Harbor, WA 98250

Laboratory Results for: [redacted]

Dear [redacted]

Enclosed are the results of the sample(s) submitted to our laboratory March 07, 2024
For your reference, these analyses have been assigned our service request number **K2402483.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3377. You may also contact me via email at Sydney.Wolf@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Sydney A. Wolf
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2402483
Date Received: 03/07/2024

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Two water samples were received for analysis at ALS Environmental on 03/07/2024. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

No significant anomalies were noted with this analysis.

Approved by Sydney A Wolfe Date 03/14/2024

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: [redacted]	Lab ID: K2402483-001					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Perfluorobutane sulfonic acid (PFBS)	4.0			0.84	ng/L	537.1
Perfluorohexane sulfonic acid (PFHxS)	11			0.84	ng/L	537.1
Perfluorohexanoic acid (PFHxA)	2.4			0.84	ng/L	537.1
Perfluorononanoic acid (PFNA)	0.96			0.84	ng/L	537.1
Perfluorooctane sulfonic acid (PFOS)	2.5			0.84	ng/L	537.1
Perfluorooctanoic acid (PFOA)	1.3			0.84	ng/L	537.1

Sample Receipt Information

ALS Environmental—Kelso Laboratory
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Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: [redacted]
Project:

Service Request:K2402483

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
K2402483-001	[redacted]	3/5/2024	0900
K2402483-002		3/5/2024	0900

ALS Environmental

CHAIN OF CUSTODY
136548

001

SR# K24024483

COC Set____of____

COC#_____

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www.alsglobal.com

[redacted]

CLIENT SAMPLE ID	LABID	SAMPLING Date Time State	Matrix	NUMBER OF CONTAINERS	14D	537.1 / PFAS-DW_537.1	1	2	3	4	5	Remarks
1. [redacted]		3-5-24 900 WA	DW	3	✓							
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Report Requirements

- ✓ I. Routine Report: Method Blank, Surrogate, as required
- __ II. Report Dup., MS, MSD as required
- __ III. CLP Like Summary (no raw data)
- __ IV. Data Validation Report
- __ V. EDD

Invoice Information

P.O.#____

Bill To: [redacted]

Turnaround Requirements

__ 24 hr. __ 48 hr.
__ 5 Day
✓ Standard

Requested Report Date

Circle which metals are to be analyzed

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Special Instructions/Comments:

*Indicate State Hydrocarbon Procedure: AK CA WI Northwest Other____(Circle One)

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
[redacted]	Signature	Signature	Signature	Signature	Signature
	Printed Name Marilyn Mitolo	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm ALS	Firm	Firm	Firm	Firm
3.5.24 10:00	Date/Time 3/7/24 0905	Date/Time	Date/Time	Date/Time	Date/Time

PM SW

[redacted] Receipt and Preservation Form

Client [redacted] Service Request K24 02483

Received: 3/7/24 Opened: 3/7/24 By: VM Unloaded: 3/7/24 By: VM

1. Samples were received via? (USPS) Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) (Cooler) Box Envelope Other _____ NA
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front, 1 Back
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
8.9	9.9	IR01		X	X	EI068909372US	

4. Was a Temperature Blank present in cooler? NA (Y) N If yes, notate the temperature in the appropriate column above:
   If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y (N)
   If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y (N)

If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*

6. Packing material: *Inserts* (*Baggies*) (*Bubble Wrap*) *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves* Ice melted
7. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
8. Were samples received in good condition (unbroken) NA (Y) N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA (Y) N
10. Did all sample labels and tags agree with custody papers? NA (Y) N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
13. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
14. Was C12/Res negative? (NA) Y N
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM (NA) Y N
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? (NA) Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Received one field blank not on COC

Miscellaneous Forms

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Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Analyst Summary report

Client: [redacted]
Project:

Service Request: K2402483

Sample Name: [redacted]
Lab Code:
Sample Matrix: Water

Date Collected: 03/5/24
Date Received: 03/7/24

Analysis Method	Extracted/Digested By	Analyzed By
537.1	PESCORRIDO	AMOORE

Sample Name: [redacted]
Lab Code:
Sample Matrix: Water

Date Collected: 03/5/24
Date Received: 03/7/24

Analysis Method	Extracted/Digested By	Analyzed By
537.1	PESCORRIDO	AMOORE

Sample Name: [redacted]
Lab Code:
Sample Matrix: Water

Date Collected: 03/5/24
Date Received: 03/7/24

Analysis Method	Extracted/Digested By	Analyzed By
537.1	PESCORRIDO	AMOORE

Sample Results

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Organic Compounds by HPLC/MS/MS

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Analytical Report

Client: [redacted]
Project:
Sample Matrix: Water

Service Request: K2402483
Date Collected: 03/05/24 09:00
Date Received: 03/07/24 09:05

Sample Name: [redacted]
Lab Code: K2402483-001

Units: ng/L
Basis: NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	LOQ	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	**4.0**	0.84	1	03/08/24 21:39	3/8/24	
Perfluorohexane sulfonic acid (PFHxS)	**11**	0.84	1	03/08/24 21:39	3/8/24	
Perfluorooctane sulfonic acid (PFOS)	**2.5**	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	**2.4**	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroheptanoic acid (PFHpA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluorooctanoic acid (PFOA)	**1.3**	0.84	1	03/08/24 21:39	3/8/24	
Perfluorononanoic acid (PFNA)	**0.96**	0.84	1	03/08/24 21:39	3/8/24	
Perfluorodecanoic acid (PFDA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluorododecanoic acid (PFDOA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.84	1	03/08/24 21:39	3/8/24	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.84	1	03/08/24 21:39	3/8/24	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.84	1	03/08/24 21:39	3/8/24	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.84	1	03/08/24 21:39	3/8/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	94	70 - 130	03/08/24 21:39	
13C2-PFDA	89	70 - 130	03/08/24 21:39	
D5-EtFOSAA	71	70 - 130	03/08/24 21:39	
13C3-HFPO-DA	98	70 - 130	03/08/24 21:39	

Client:	[redacted]	**Service Request:**	K2402483
Project:		**Date Collected:**	03/05/24 09:00
Sample Matrix:	Water	**Date Received:**	03/07/24 09:05
Sample Name:	[redacted]	**Units:**	ng/L
Lab Code:	K2402483-002	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	LOQ	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroheptanoic acid (PFHpA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorooctanoic acid (PFOA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorononanoic acid (PFNA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorodecanoic acid (PFDA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorododecanoic acid (PFDOA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.93	1	03/11/24 12:49	3/8/24	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.93	1	03/11/24 12:49	3/8/24	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.93	1	03/11/24 12:49	3/8/24	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.93	1	03/11/24 12:49	3/8/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	93	70 - 130	03/11/24 12:49	
13C2-PFDA	89	70 - 130	03/11/24 12:49	
D5-EtFOSAA	77	70 - 130	03/11/24 12:49	
13C3-HFPO-DA	99	70 - 130	03/11/24 12:49	

QC Summary Forms

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Organic Compounds by HPLC/MS/MS

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Client: [redacted] **Service Request:** K2402483

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	13C2-PFDA 70 - 130	13C2-PFHxA 70 - 130	13C3-HFPO-DA 70 - 130
[redacted]	K2402483-001	89	94	98
	K2402483-002	89	93	99
Method Blank	KQ2403428-01	78	89	90
Lab Control Sample	KQ2403428-02	89	88	91
Duplicate Lab Control Sample	KQ2403428-03	85	91	98

Client: [redacted] **Service Request:** K2402483

Project:

Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1

Extraction Method: Method

Sample Name	Lab Code	D5-EtFOSAA 70 - 130
[redacted]	K2402483-001	71
	K2402483-002	77
Method Blank	KQ2403428-01	79
Lab Control Sample	KQ2403428-02	70
Duplicate Lab Control Sample	KQ2403428-03	80

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	[redacted]	**Service Request:**	K2402483
Project:		**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ2403428-01	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	LOQ	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorododecanoic acid (PFDOA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluorotetradecanoic acid (PFTDA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	1.0	1	03/11/24 12:05	3/8/24	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	1.0	1	03/11/24 12:05	3/8/24	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	1.0	1	03/11/24 12:05	3/8/24	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	1.0	1	03/11/24 12:05	3/8/24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	89	70 - 130	03/11/24 12:05	
13C2-PFDA	78	70 - 130	03/11/24 12:05	
D5-EtFOSAA	79	70 - 130	03/11/24 12:05	
13C3-HFPO-DA	90	70 - 130	03/11/24 12:05	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	[redacted]	**Service Request:**	K2402483
Project:		**Date Analyzed:**	03/08/24 - 03/11/24
Sample Matrix:	Water	**Date Extracted:**	03/08/24

Duplicate Lab Control Sample Summary

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method:	537.1	**Units:**	ng/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	834517

	Lab Control Sample KQ2403428-02			Duplicate Lab Control Sample KQ2403428-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	93.2	100	93	90.0	100	90	70-130	4	30
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	90.5	100	91	100	100	100	70-130	10	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	73.7	100	74	78.3	100	78	70-130	6	30
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	92.8	100	93	100	100	100	70-130	8	30
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	78.9	100	79	86.2	100	86	70-130	9	30
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	88.4	100	88	94.1 E	100	94	70-130	6	30
Perfluorobutane sulfonic acid (PFBS)	78.0	100	78	82.2	100	82	70-130	5	30
Perfluorodecanoic acid (PFDA)	86.2	100	86	90.2	100	90	70-130	5	30
Perfluorododecanoic acid (PFDOA)	85.3	100	85	87.2	100	87	70-130	2	30
Perfluoroheptanoic acid (PFHpA)	88.1	100	88	91.0	100	91	70-130	3	30
Perfluorohexane sulfonic acid (PFHxS)	83.1	100	83	90.3	100	90	70-130	8	30
Perfluorohexanoic acid (PFHxA)	91.6	100	92	93.8	100	94	70-130	2	30
Perfluorononanoic acid (PFNA)	85.8	100	86	88.9	100	89	70-130	4	30
Perfluorooctane sulfonic acid (PFOS)	85.8	100	86	84.8	100	85	70-130	1	30
Perfluorooctanoic acid (PFOA)	84.7	100	85	86.8	100	87	70-130	3	30
Perfluorotetradecanoic acid (PFTDA)	88.9	100	89	76.3	100	76	70-130	15	30
Perfluorotridecanoic acid (PFTrDA)	88.1	100	88	79.3	100	79	70-130	11	30
Perfluoroundecanoic acid (PFUnDA)	89.4	100	89	89.9	100	90	70-130	<1	30

GeoEngineers Unique ID: P-5

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0242
Project: Kitchen/Outside Faucets
Reported: 5/24/2023 14:03

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0242-01
Collect Date: 05/02/23 08:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Outside Faucet Front
Matrix: Drinking Water

Lab/Sample Number: 125-24201

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/11/23 16:04	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/11/23 16:04	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/11/23 16:04	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/11/23 16:04	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/11/23 16:04	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0447	HFPO-DA Hexafluoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0242
Project: Kitchen/Outside Faucets
Reported: 5/24/2023 14:03

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0242-01
Collect Date: 05/02/23 08:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Outside Faucet Front
Matrix: Drinking Water

Lab/Sample Number: 125-24201

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:04	MER	EPA 533	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0242
Project: Kitchen/Outside Faucets
Reported: 5/24/2023 14:03

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0242-02
Collect Date: 05/02/23 08:45
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen RO Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-24202

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/11/23 16:30	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/11/23 16:30	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/11/23 16:30	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/11/23 16:30	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/11/23 16:30	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0242
Project: Kitchen/Outside Faucets
Reported: 5/24/2023 14:03

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0242-02
Collect Date: 05/02/23 08:45
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Kitchen RO Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-24202

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 16:30	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

MDE0242

Due: 05/19/23

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredi

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA#
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EPA

Washington Chain of Custody - Drinking Water Analysi

WATER SYSTEM	private well	Water System #	—
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☐	Before (B)	☐	Compliance (C)
☒	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected	5/2/2023 0845
Sampler Name:	[redacted]
Sampler Signature:	

Payment due with samples unless credit has been established

Sample Location (required)	Kitchen RO faucet

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number: _____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s _____
- ☐ Blended Sample (96) List source #'s _____

Receiving Check List

- ☐ Received Intact
- ☐ No Headspace
- ☐ Labels & Chains Agree
- ☐ Temp: _____
- ☐ Ice/Ice-Packs Present: _____
- ☐ Custody Seals Present: _____
- ☐ Preservatives: _____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☑ PFAS by EPA 533	This sample is labeled [redacted] (same client as sample labeled [redacted]
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	DA
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	5/5/23 10:24

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.
Subcontracted analyses will be clearly noted on the analytical report.

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredited

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA# ID00013
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EPA# WA00169

Washington Chain of Custody - Drinking Water Analysis

WATER SYSTEM	private well	Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/2/2023 0830
Sampler Name: [redacted]
Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required): outside faucet front

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number: _____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s _____
- ☐ Blended Sample (96) List source #'s _____

Receiving Check List

- ☐ Received Intact
- ☐ No Headspace
- ☐ Labels & Chains Agree
- ☐ Temp: _____
- ☐ Ice/Ice-Packs Present: _____
- ☐ Custody Seals Present: _____
- ☐ Preservatives: _____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☐ PFAS by EPA 533	This sample is labeled [redacted] (same client as sample labeled [redacted]
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	DA
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	5/5/23 10:24

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: [redacted]

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: _____ Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: Bubble Wrap (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.7 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 3				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH-after details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	(N/A)		
VOC Trip Blanks Present?	Yes	No	(N/A)		

Record preservatives (and lot numbers, if known) for containers below:

P250 NH_4Ac x 3 x2

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [signature] Date/Time: 10:24 5/5/23

Form F19.01 - Eff 1 Dec 2022

GeoEngineers Unique ID: P-6

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-01
Collect Date: 05/03/23 17:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24601

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/11/23 17:22	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/11/23 17:22	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/11/23 17:22	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/11/23 17:22	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/11/23 17:22	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-01
Collect Date: 05/03/23 17:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24601

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 17:22	MER	EPA 533	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-02
Collect Date: 05/03/23 18:00
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24602

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/11/23 15:39	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/11/23 15:39	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/11/23 15:39	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/11/23 15:39	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/11/23 15:39	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0246
Project: Friday Harbor Sampling
Reported: 5/24/2023 14:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0246-02
Collect Date: 05/03/23 18:00
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: [redacted]
Matrix: Drinking Water

Lab/Sample Number: 125-24602

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/11/23 15:39	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredi

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA#
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EP/

MDE0246

Due: 05/19/23

Washington Chain of Custody - Drinking Water Analys

WATER SYSTEM		Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected	5/3/2023 1730
Sampler Name:	[redacted]
Sampler Signature:	

Payment due with samples unless credit has been established

Sample Location (required) [redacted]

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number:_____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s_____
- ☐ Blended Sample (96) List source #'s_____

Receiving Check List

- ☐ Received Intact ☐ No Headspace
- ☐ Labels & Chains Agree ☐ Temp: _____
- ☐ Ice/Ice-Packs Present:_____
- ☐ Custody Seals Present:_____
- ☐ Preservatives:_____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	Sample is labeled [redacted]
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	JB
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	10:24 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredited

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA# ID00013
☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EPA# WA00169

Washington Chain of Custody - Drinking Water Analysis

WATER SYSTEM		Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/3/2023 1800

Sampler Name: [redacted]

Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required) [redacted]

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number: _____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s _____
- ☐ Blended Sample (96) List source #'s _____

Receiving Check List

- ☐ Received Intact ☐ No Headspace
- ☐ Labels & Chains Agree ☐ Temp: _____
- ☐ Ice/Ice-Packs Present: _____
- ☐ Custody Seals Present: _____
- ☐ Preservatives: _____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	Sample is labeled [redacted] Also has MS + MSD (18:05)
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature: [redacted]

Shipping/Delivery Date: 5/4/2023

Received By: DA

Date/Time Rec'd: 10:47 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: [redacted]

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: _____ Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: Bubble Wrap (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.7 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 8 3 VOAs 5/5/23				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH after details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	(N/A)		
VOC Trip Blanks Present?	Yes	No	(N/A)		

Record preservatives (and lot numbers, if known) for containers below:

P250 NH_4Ac x 3 x 2 + ml/mlD

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [signature] Date/Time: 10:24 5/5/23

Form F19.01 - Eff 1 Dec 2022

Page 1 of 1

GeoEngineers Unique ID: P-7

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ANALYTICAL SUMMARY REPORT

July 08, 2024

Project Leader
~~Evance~~ LaDonna Weis

[redacted]

Work Order: [redacted]
Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for [redacted] on 6/18/2024 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B24061560-001	Bottle #184897 A, B, C	06/17/24 12:00	06/18/24	Drinking Water	PFAS Compounds In Drinking Water PFAS 537.1 Drinking Water Extraction

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

LaDonna Weis
Organic Supervisor

Digitally signed by
Ladonna Weis
Date: 2024.07.08 16:11:34 -06:00

[redacted]

File ⇒ Energy Lab PFAS 6-8-24

Another test ⇒ 6 months
Send for more bottles

CLIENT: [redacted]
Project: Not Indicated
Work Order: [redacted]

Report Date: 07/08/24

CASE NARRATIVE

PFAS Analyte Translation

Analyte Acronym	Analyte Name
PFHxA	Perfluorohexanoic Acid
PFHpA	Perfluoroheptanoic Acid
PFOA	Perfluorooctanoic Acid
PFNA	Perfluorononanoic Acid
PFDA	Perfluorodecanoic Acid
PFUnA	Perfluoroundecanoic Acid
PFDoA	Perfluorododecanoic Acid
PFTrDA	Perfluorotridecanoic Acid
PFTA	Perfluorotetradecanoic Acid
PFBS	Perfluorobutanesulfonic Acid
PFHxS	Perfluorohexanesulfonic Acid
PFOS	Perfluorooctanesulfonic Acid
NEtFOSAA	N-ethylPerfluorooctanesulfonamidoacetic Acid
NMeFOSAA	N-methylPerfluorooctanesulfonamidoacetic Acid
HFPO-DA	Hexafluoropropylene Oxide Dimer Acid
ADONA	4,8-dioxa-3H-perfluorononanoic Acid
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic Acid
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone-1-sulfonic Acid

Surrogates

13C2-PFDA	13C2-Perfluorodecanoic Acid
13C2-PFHxA	13C2-Perfluorohexanoic Acid
13C3-HFPO-DA	13C3-Hexafluoropropylene Oxide Dimer Acid
d5-NEtFOSAA	d5-N-ethyl Perfluorooctanesulfanamidoacetic Acid

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: [redacted]
Project: Not Indicated
Lab ID: [redacted]
Client Sample ID: Bottle #184897 A, B, C

Report Date: 07/08/24
Collection Date: 06/17/24 12:00
DateReceived: 06/18/24
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PFAS COMPOUNDS IN DRINKING WATER							
PFHxA	7.2	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFHpA	1.8	ng/L	J	2.0		E537.1	06/20/24 14:38 / DGF
PFOA	3.0	ng/L		2.0	4	E537.1	06/20/24 14:38 / DGF
PFNA	ND	ng/L		2.0	10	E537.1	06/20/24 14:38 / DGF
PFDA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFUnA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFDoA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFTrDA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFTA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFBS	18	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
PFHxS	29	ng/L	*	2.0	10	E537.1	06/20/24 14:38 / DGF
PFOS	1.8	ng/L	J	2.0	4	E537.1	06/20/24 14:38 / DGF
NEtFOSAA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
NMeFOSAA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
HFPO-DA	ND	ng/L		2.0	10	E537.1	06/20/24 14:38 / DGF
ADONA	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
11Cl-PF3OUdS	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
9Cl-PF3ONS	ND	ng/L		2.0		E537.1	06/20/24 14:38 / DGF
Surr: 13C2-PFDA	94.0	%REC		70-130		E537.1	06/20/24 14:38 / DGF
Surr: 13C2-PFHxA	107	%REC		70-130		E537.1	06/20/24 14:38 / DGF
Surr: 13C3-HFPO-DA	105	%REC		70-130		E537.1	06/20/24 14:38 / DGF
Surr: d5-NEtFOSAA	91.0	%REC		70-130		E537.1	06/20/24 14:38 / DGF

above level

one above level

estimated value

EPA website

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
* - The result exceeds the Maximum Contaminant Level (MCL)
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)
J - Estimated value - analyte was present but less than the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Residential Testing **Work Order:** [redacted] **Report Date:** 07/08/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E537.1										Batch: 190558
Lab ID: MB-190558	22	Method Blank				Run: SCIEX 4500_240620A				06/20/24 14:00
PFHxA		ND	ng/L	2.0						
PFHpA		ND	ng/L	2.0						
PFOA		ND	ng/L	2.0						
PFNA		ND	ng/L	2.0						
PFDA		ND	ng/L	2.0						
PFUnA		ND	ng/L	2.0						
PFDoA		ND	ng/L	2.0						
PFTrDA		ND	ng/L	2.0						
PFTA		ND	ng/L	2.0						
PFBS		ND	ng/L	2.0						
PFHxS		ND	ng/L	2.0						
PFOS		ND	ng/L	2.0						
NEtFOSAA		ND	ng/L	2.0						
NMeFOSAA		ND	ng/L	2.0						
HFPO-DA		ND	ng/L	2.0						
ADONA		ND	ng/L	2.0						
11Cl-PF3OUdS		ND	ng/L	2.0						
9Cl-PF3ONS		ND	ng/L	2.0						
Surr: 13C2-PFDA				2.0	110	70	130			
Surr: 13C2-PFHxA				2.0	104	70	130			
Surr: 13C3-HFPO-DA				2.0	99	70	130			
Surr: d5-NEtFOSAA				8.0	106	70	130			
Lab ID: LCS1-190558	22	Laboratory Control Sample				Run: SCIEX 4500_240620A				06/20/24 14:19
PFHxA		4.5	ng/L	2.0	113	50	150			
PFHpA		4.4	ng/L	2.0	109	50	150			
PFOA		4.3	ng/L	2.0	108	50	150			
PFNA		4.3	ng/L	2.0	107	50	150			
PFDA		4.3	ng/L	2.0	106	50	150			
PFUnA		4.0	ng/L	2.0	100	50	150			
PFDoA		3.9	ng/L	2.0	97	50	150			
PFTrDA		3.9	ng/L	2.0	98	50	150			
PFTA		3.7	ng/L	2.0	92	50	150			
PFBS		4.0	ng/L	2.0	113	50	150			
PFHxS		4.0	ng/L	2.0	110	50	150			
PFOS		3.8	ng/L	2.0	103	50	150			
NEtFOSAA		3.8	ng/L	2.0	95	50	150			
NMeFOSAA		4.0	ng/L	2.0	101	50	150			
HFPO-DA		4.0	ng/L	2.0	101	50	150			
ADONA		4.3	ng/L	2.0	113	50	150			
11Cl-PF3OUdS		3.7	ng/L	2.0	97	50	150			
9Cl-PF3ONS		4.0	ng/L	2.0	107	50	150			
Surr: 13C2-PFDA				2.0	99	70	130			
Surr: 13C2-PFHxA				2.0	107	70	130			
Surr: 13C3-HFPO-DA				2.0	102	70	130			
Surr: d5-NEtFOSAA				8.0	94	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Residential Testing **Work Order:** [redacted] **Report Date:** 07/08/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E537.1										Batch: 190558
Lab ID: B24061560-001AMS1	21	Sample Matrix Spike				Run: SCIEX 4500_240620A				06/20/24 14:57
PFHxA		11	ng/L	2.0	106	50	150			
PFHpA		5.5	ng/L	2.0	103	50	150			
PFOA		6.7	ng/L	2.0	104	50	150			
PFNA		3.9	ng/L	2.0	109	50	150			
PFDA		3.8	ng/L	2.0	106	50	150			
PFUnA		3.5	ng/L	2.0	98	50	150			
PFDoA		3.3	ng/L	2.0	93	50	150			
PFTrDA		3.5	ng/L	2.0	98	50	150			
PFTA		3.4	ng/L	2.0	94	50	150			
PFBS		23	ng/L	2.0	133	50	150			
PFOS		5.2	ng/L	2.0	103	50	150			
NEtFOSAA		3.1	ng/L	2.0	87	50	150			
NMeFOSAA		3.2	ng/L	2.0	89	50	150			
HFPO-DA		3.4	ng/L	2.0	97	50	150			
ADONA		3.7	ng/L	2.0	109	50	150			
11Cl-PF3OUdS		3.2	ng/L	2.0	94	50	150			
9Cl-PF3ONS		3.4	ng/L	2.0	101	50	150			
Surr: 13C2-PFDA				2.0	113	70	130			
Surr: 13C2-PFHxA				2.0	114	70	130			
Surr: 13C3-HFPO-DA				2.0	108	70	130			
Surr: d5-NEtFOSAA				8.0	94	70	130			
Lab ID: B24061560-001AMSD1	21	Sample Matrix Spike Duplicate				Run: SCIEX 4500_240620A				06/20/24 15:16
PFHxA		11	ng/L	2.0	97	50	150	3.7	30	
PFHpA		5.0	ng/L	2.0	93	50	150	8.5	30	
PFOA		5.5	ng/L	2.0	73	50	150	19	30	
PFNA		3.6	ng/L	2.0	103	50	150	7.5	30	
PFDA		3.1	ng/L	2.0	90	50	150	18	30	
PFUnA		3.0	ng/L	2.0	85	50	150	16	30	
PFDoA		2.8	ng/L	2.0	80	50	150	18	30	
PFTrDA		2.9	ng/L	2.0	84	50	150	18	30	
PFTA		2.9	ng/L	2.0	83	50	150	15	30	
PFBS		23	ng/L	2.0	149	50	150	1.8	30	
PFOS		5.0	ng/L	2.0	98	50	150	4.5	30	
NEtFOSAA		2.8	ng/L	2.0	80	50	150	11	30	
NMeFOSAA		2.9	ng/L	2.0	85	50	150	7.1	30	
HFPO-DA		3.1	ng/L	2.0	88	50	150	11	30	
ADONA		3.4	ng/L	2.0	102	50	150	9.0	30	
11Cl-PF3OUdS		3.0	ng/L	2.0	92	50	150	4.9	30	
9Cl-PF3ONS		3.2	ng/L	2.0	98	50	150	5.3	30	
Surr: 13C2-PFDA				2.0	96	70	130			
Surr: 13C2-PFHxA				2.0	108	70	130			
Surr: 13C3-HFPO-DA				2.0	103	70	130			
Surr: d5-NEtFOSAA				8.0	92	70	130			
Lab ID: B24061560-001AMS1	5	Sample Duplicate				Run: SCIEX 4500_240620A				06/20/24 14:57
PFHxS		33	ng/L	2.0				3.5	30	*

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

* - The result exceeds the Maximum Contaminant Level (MCL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Residential Testing **Work Order:** [redacted] **Report Date:** 07/08/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E537.1										Batch: 190558
Lab ID: B24061560-001AMS1	5	Sample Duplicate			Run: SCIEX 4500_240620A					06/20/24 14:57
PFHxS		35	ng/L	2.0	113	70	130			
Surr: 13C2-PFDA				2.0	114	70	130			
Surr: 13C2-PFHxA				2.0	108	70	130			
Surr: 13C3-HFPO-DA				8.0	94	70	130			
Surr: d5-NEtFOSAA										
Lab ID: B24061560-001AMSD1	5	Sample Duplicate			Run: SCIEX 4500_240620A					06/20/24 15:16
PFHxS		35	ng/L	2.0				9.4	30	*
Surr: 13C2-PFDA				2.0	96	70	130			
Surr: 13C2-PFHxA				2.0	108	70	130			
Surr: 13C3-HFPO-DA				2.0	103	70	130			
Surr: d5-NEtFOSAA				8.0	92	70	130			

Because the sample amount was significantly higher than the spike amount, the Matrix Spike sample and Matrix Spike Duplicate sample are calculated as duplicate samples for PFHxS based on the spike amount added plus the original sample concentration.

Qualifiers:

RL - Analyte Reporting Limit

* - The result exceeds the Maximum Contaminant Level (MCL)

ND - Not detected at the Reporting Limit (RL)

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Residential Testing **Work Order:** [redacted] **Report Date:** 07/08/24

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E537.1										Analytical Run: R423245
Lab ID: CCV1	22	Continuing Calibration Verification Standard								06/20/24 13:41
PFHxA		500	ng/L	2.0	99	50	150			
PFHpA		490	ng/L	2.0	99	50	150			
PFOA		500	ng/L	2.0	99	50	150			
PFNA		500	ng/L	2.0	100	50	150			
PFDA		440	ng/L	2.0	88	50	150			
PFUnA		460	ng/L	2.0	91	50	150			
PFDoA		460	ng/L	2.0	91	50	150			
PFTrDA		430	ng/L	2.0	87	50	150			
PFTA		430	ng/L	2.0	86	50	150			
PFBS		440	ng/L	2.0	89	50	150			
PFHxS		420	ng/L	2.0	93	50	150			
PFOS		420	ng/L	2.0	91	50	150			
NEtFOSAA		490	ng/L	2.0	98	50	150			
NMeFOSAA		470	ng/L	2.0	93	50	150			
HFPO-DA		450	ng/L	2.0	91	50	150			
ADONA		470	ng/L	2.0	100	50	150			
11Cl-PF3OUdS		440	ng/L	2.0	92	50	150			
9Cl-PF3ONS		450	ng/L	2.0	96	50	150			
Surr: 13C2-PFDA				2.0	96	70	130			
Surr: 13C2-PFHxA				2.0	103	70	130			
Surr: 13C3-HFPO-DA				2.0	94	70	130			
Surr: d5-NEtFOSAA				8.0	99	70	130			
Lab ID: CCV2	22	Continuing Calibration Verification Standard								06/20/24 15:55
PFHxA		7300	ng/L	2.0	97	70	130			
PFHpA		7200	ng/L	2.0	96	70	130			
PFOA		7600	ng/L	2.0	101	70	130			
PFNA		7700	ng/L	2.0	103	70	130			
PFDA		7800	ng/L	2.0	104	70	130			
PFUnA		7200	ng/L	2.0	96	70	130			
PFDoA		7200	ng/L	2.0	97	70	130			
PFTrDA		7700	ng/L	2.0	102	70	130			
PFTA		7400	ng/L	2.0	99	70	130			
PFBS		6300	ng/L	2.0	95	70	130			
PFHxS		6600	ng/L	2.0	97	70	130			
PFOS		6300	ng/L	2.0	91	70	130			
NEtFOSAA		6300	ng/L	2.0	84	70	130			
NMeFOSAA		6800	ng/L	2.0	91	70	130			
HFPO-DA		7300	ng/L	2.0	97	70	130			
ADONA		7200	ng/L	2.0	102	70	130			
11Cl-PF3OUdS		6800	ng/L	2.0	97	70	130			
9Cl-PF3ONS		6800	ng/L	2.0	98	70	130			
Surr: 13C2-PFDA				2.0	102	70	130			
Surr: 13C2-PFHxA				2.0	104	70	130			
Surr: 13C3-HFPO-DA				2.0	106	70	130			
Surr: d5-NEtFOSAA				8.0	93	70	130			

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

Work Order Receipt Checklist

[redacted] [redacted]

Login completed by: Kyelie L. Pflock
Reviewed by: cindy
Reviewed Date: 6/19/2024

Date Received: 6/18/2024
Received by: KOF
Carrier name: Return-FedEx NDA

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	2.2°C On Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

Samples Double B and Blank A were not received. Proceed with tests per conversation between Darcy Chirrick and Steve Blau on 06/17/24. KP 06/18/24

Blue

ENERGY LABORATORIES
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Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 2

Account Information (Billing information)

Company/Name [redacted]
Contact
Phone
Mailing Address
City, State, Zip
Email
Receive Invoice ☐Hard Copy ☐Email | Receive Report ☐Hard Copy ☐Email
Purchase Order 6-17-24

SAME

Report Information (if different than Account Information)

Company/Name
Contact
Phone SAME
Mailing Address
City, State, Zip
Email
Receive Report ☐Hard Copy ☐Email Both ok
Special Report/Formats
☐ LEVEL IV ☐NELAC ☐ EDD/EDT (contact laboratory) ☐ Other

Comments

Project Information

Project Name, PWSID, Permit, etc.
Sampler Name | Sampler Phone
Sample Origin State | EPA/State Compliance ☐ Yes ☐ No

URANIUM MINING CLIENTS MUST indicate sample type
☐ Unprocessed Ore
☐ Processed Ore (Ground or Refined) **CALL BEFORE SENDING
☐ 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)

Matrix Codes
A - Air
W - Water
S - Solid/Solids
V - Vegetation
B - Biosolids
O - Oil
DW - Drinking Water

Analysis Requested

All turnaround times are standard unless marked as RUSH.
Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling – See Instructions Page

	Sample Identification (Name, Location, Interval, etc.)	Collection Date	Collection Time	Number of Containers	Matrix (See Codes Above)	Analysis Requested	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
1	Bottle #184897 - A	6-17	12 noon	1	DW	PFAS			324061560
2	" " - B	6-17	"	1	DW	PFAS			
3	" " - C	"	"	1	DW	PFAS			
4	" " - D	"	"	1	DW	PFAS			
5	" " - E	"	"	1	DW	PFAS			
6									
7									
8	All water samples from								
9	kitchen sink (sixteen oz)								

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC.

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print) Kate Finneman	Date/Time 6/18/24 0928	Signature Kate Finneman

LABORATORY USE ONLY

Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp °C	Temp Blank Y N	On Ice Y N	Payment Type CC Cash Check	Amount $	Receipt Number (cash/check only)
FedX									

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.

ELI-COC 01/21 v.4

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BOTTLE ORDER [redacted]

SHIPPED TO: Residential Testing

To report an issue with this order, view Safety Data Sheets, or let us know how we are doing, scan here or go to energylab.com/contact-us

Contact: [redacted]
Phone:
Project:

Order Created by: Yvonna E. Smith
Shipped From: Billings, MT
Ship Date: 6/7/2024
VIA: Std US Mail

Bottle Size/Type	Bottles Per Samp	Method	Tests	Critical Hold Time	Preservative	Notes	Num of Samp
PFAS							
250 mL Polypropylene Wide Mouth	3	E537.1	PFAS Compounds in Drinking Water		Trizma	Do Not Rinse - Container is pre-preserved. Special Sampling Instructions - See Brochure	1
Field Reagent Blank - PFAS DW							
250 mL Polypropylene Wide Mouth	2	E537.1	PFAS Compounds in Drinking Water		Trizma	Do Not Rinse - Container is pre-preserved. Special Sampling Instructions - See Brochure	1

Comments: Check #1237 for 2 PFAS bottles $666
$816.00 Check #1238 for postage $150

HNO3 - Nitric Acid; H2SO4 - Sulfuric Acid; NaOH - Sodium Hydroxide
ZnAc - Zinc Acetate; HCl - Hydrochloric Acid; H3PO4 - Phosphoric Acid

We strongly suggest that the samples are shipped the same day as they are collected.

Material Safety Data Sheets(MSDS) Available @ EnergyLab.com ->Services -> MSDS Sheets
Corrosive Chemicals: Nitric, Sulfuric, Phosphoric, Hydrochloric Acids and Sodium Hydroxide. Zinc Acetate is a skin irritant.

Subcontracting of sample analyses to an outside laboratory may be required. If so, Energy Laboratories will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BO#: 184897

GeoEngineers Unique ID: P-8

SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: [redacted]	Lab ID: K2305351-001					
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Perfluorobutane sulfonic acid (PFBS)	30			0.91	ng/L	537.1
Perfluorohexane sulfonic acid (PFHxS)	48			0.91	ng/L	537.1
Perfluorohexanoic acid (PFHxA)	2.0			0.91	ng/L	537.1
Perfluorooctane sulfonic acid (PFOS)	1.7			0.91	ng/L	537.1
Perfluorooctanoic acid (PFOA)	0.92			0.91	ng/L	537.1

Analytical Report

Client:	[redacted]	**Service Request:**	K2305351
Project:	PFAS Testing/537.1	**Date Collected:**	05/08/23 15:00
Sample Matrix:	Drinking Water	**Date Received:**	05/10/23 10:20
Sample Name:	[redacted]	**Units:**	ng/L
Lab Code:	K2305351-001	**Basis:**	NA

Determination of Per- and Polyfluorinated Alkyl Substances in Drinking Water by SPE and LC/MS/MS

Analysis Method: 537.1
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkyl Sulfonic Acids (PFSAs)						
Perfluorobutane sulfonic acid (PFBS)	**30**	0.91	1	05/24/23 03:10	5/11/23	
Perfluorohexane sulfonic acid (PFHxS)	**48**	0.91	1	05/24/23 03:10	5/11/23	
Perfluorooctane sulfonic acid (PFOS)	**1.7**	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroalkyl Carboxylic Acids (PFCAs)						
Perfluorohexanoic acid (PFHxA)	**2.0**	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroheptanoic acid (PFHpA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluorooctanoic acid (PFOA)	**0.92**	0.91	1	05/24/23 03:10	5/11/23	
Perfluorononanoic acid (PFNA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluorodecanoic acid (PFDA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluorododecanoic acid (PFDOA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluorotetradecanoic acid (PFTDA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroalkyl Sulfonamido Substances						
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroalkyl Ether Sulfonic Acids (PFESAs)						
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND U	0.91	1	05/24/23 03:10	5/11/23	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND U	0.91	1	05/24/23 03:10	5/11/23	
Perfluoroalkyl Ether Carboxylic Acids (PFECAs)						
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (GenX)	ND U	0.91	1	05/24/23 03:10	5/11/23	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND U	0.91	1	05/24/23 03:10	5/11/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C2-PFHxA	133	70 - 130	05/24/23 03:10	*
13C2-PFDA	156	70 - 130	05/24/23 03:10	*
D5-EtFOSAA	100	70 - 130	05/24/23 03:10	
13C3-HFPO-DA	135	70 - 130	05/24/23 03:10	*

GeoEngineers Unique ID: P-9

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0245
Project: Outside Faucet Front
Reported: 5/24/2023 15:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0245-01
Collect Date: 05/03/23 11:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:41
Sample Purpose:
Sample Location: Outside Faucet Front
Matrix: Drinking Water

Lab/Sample Number: 125-24501

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/12/23 19:10	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/12/23 19:10	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/12/23 19:10	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/12/23 19:10	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/12/23 19:10	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	

Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0245
Project: Outside Faucet Front
Reported: 5/24/2023 15:16

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0245-01
Collect Date: 05/03/23 11:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:41
Sample Purpose:
Sample Location: Outside Faucet Front
Matrix: Drinking Water

Lab/Sample Number: 125-24501

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 19:10	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

MDE0245

Due: 05/19/23

ANATEK LABS

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☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EP

Washington Chain of Custody - Drinking Water Analys

WATER SYSTEM	private well	Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/3/2023 11:30

Sampler Name: [redacted]

Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required): outside faucet front

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number: _____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s _____
- ☐ Blended Sample (96) List source #'s _____

Receiving Check List

- ☐ Received Intact
- ☐ No Headspace
- ☐ Labels & Chains Agree
- ☐ Temp: _____
- ☐ Ice/Ice-Packs Present: _____
- ☐ Custody Seals Present: _____
- ☐ Preservatives: _____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	has MS + MSD (11:30)
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	DA
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	10:41 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: [redacted]

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes No (N/A)

Number of Coolers/Boxes: _____ Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: Bubble Wrap (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.7 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 5 3DA 5IS				
Samples Properly Preserved?	(Yes)	No	N/A	
If No, record preservation and pH-after details				
VOC Vials Free of Headspace (<6mm)?	Yes	No	(N/A)	
VOC Trip Blanks Present?	Yes	No	(N/A)	

Initial pH:	pH Paper ID:
<2 or	

Record preservatives (and lot numbers, if known) for containers below:

P-50 NH_4Ac x 3 + Mf/MSD

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: DA Date/Time: 10:24 5/5/23

Form F19.01 - Eff 1 Dec 2022

GeoEngineers Unique ID: P-10

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0263
Project: Pumphouse Faucet
Reported: 5/24/2023 15:12

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0263-01
Collect Date: 05/02/23 10:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Pumphouse Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-26301

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0434	PFOA Perfluorooctanoic acid	ND	ng/L	2.00	2	10		5/12/23 0:13	MER	EPA 533	
0433	PFOS Perfluorooctanesulfonic acid	ND	ng/L	2.00	2	15		5/12/23 0:13	MER	EPA 533	
0431	PFHxS Perfluorohexanesulfonic acid	ND	ng/L	2.00	2	65		5/12/23 0:13	MER	EPA 533	
0432	PFNA Perfluorononanoic acid	ND	ng/L	2.00	2	9		5/12/23 0:13	MER	EPA 533	
0429	PFBS Perfluorobutanesulfonic acid	ND	ng/L	2.00	2	345		5/12/23 0:13	MER	EPA 533	
0430	PFHpA Perfluoroheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0435	PFHxA Perfluorohexanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0436	PFDA Perfluorodecanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0437	PFUnA Perfluoroundecanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0438	PFDoA Perfluorododecanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0445	ADONA 4,8-Dioxa-3H-perfluorononanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0446	9Cl-PF3ONS	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0447	HFPO-DA Hexafuoropropylene oxide dimer acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0448	11Cl-PF3OUdS	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0450	4:2FTS 1H,1H,2H,2H-Perfluorohexane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0451	6:2FTS 1H,1H,2H,2H-Perfluorooctane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0452	8:2FTS 1H,1H,2H,2H-Perfluorodecane sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0453	NFDHA Nonafluoro-3,6-dioxaheptanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0454	PFBA Perfluorobutanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: [redacted]
Address:
Friday Harbor, WA 98250
Attn: [redacted]

Work Order: MDE0263
Project: Pumphouse Faucet
Reported: 5/24/2023 15:12

Analytical Results Report

System ID#
System Name: [redacted]
Reference Number: MDE0263-01
Collect Date: 05/02/23 10:30
DOH Source #:
Multiple Source Nos:
Sample Type:
County: San Juan
Date Received: 05/05/23 10:24
Sample Purpose:
Sample Location: Pumphouse Faucet
Matrix: Drinking Water

Lab/Sample Number: 125-26301

Per- and Polyfluoroalkyl Substances (PFAS)

DOH #	Analyte	Result	Units	LRL	SDRL	SAL	MCL	Analyzed	Analyst	Method	Qualifier
0455	PFHpS Perfluoroheptanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0456	PFMBA Perfluoro-4-methoxybutanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0457	PFMPA Perfluoro-3-methoxypropanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0458	PFPeA Perfluoropentanoic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0459	PFPeS Perfluoropentanesulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	
0460	PFEESA Perfluoro(2-ethoxyethane) sulfonic acid	ND	ng/L	2.00	2	--		5/12/23 0:13	MER	EPA 533	

Authorized Signature,

Justin Doty For Todd Taruscio, Laboratory Manager

M12	Matrix spike recovery was low. Potential matrix effect.
LRL	Lab Reporting Limit
SDRL	State Detection Reporting Limit
ND	Not Detected
MCL	EPA's Maximum Contaminant Level
Dry	Sample results reported on a dry weight basis
SAL	State Action Level
*	Not a certified analyte
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was spiked or duplicated.

MDE0263

Due: 05/19/23

ANATEK LABS

ANATEK LABS, INC - Multi-state Certified, NELAC Accredit

☐ 1282 Alturas Drive, Moscow ID 83843 208-883-2839 moscow@anateklabs.com EPA#

☐ 504 E Sprague Ste D, Spokane WA 99202 509-838-3999 spokane@anateklabs.com EPA

Washington Chain of Custody - Drinking Water Analysi

WATER SYSTEM	private well	Water System #	
SEND REPORT TO	[redacted]	Phone Number	[redacted]
ADDRESS	[redacted]	E-Mail	
CITY STATE ZIP	Friday Harbor, WA 98250	County	San Juan

Sample Type		Sample Purpose	
☒	Before (B)	☐	Compliance (C)
☐	After (A)	☐	Investigative (I)
☐	Unknown (U)	☒	Other Purpose (B)

Date & Time Collected: 5/2/2023 1030

Sampler Name: [redacted]

Sampler Signature:

Payment due with samples unless credit has been established

Sample Location (required): pumphouse faucet

DOH Source # (Check one and fill in where necessary)

- ☐ Single Well Source Number:_____
- ☐ Flowing Distribution (92)
- ☐ Composite Sampling (95) List source #'s_____
- ☐ Blended Sample (96) List source #'s_____

Receiving Check List

- ☐ Received Intact
- ☐ No Headspace
- ☐ Labels & Chains Agree
- ☐ Temp: _____
- ☐ Ice/Ice-Packs Present:_____
- ☐ Custody Seals Present:_____
- ☐ Preservatives:_____

Check Desired Analyses

IOCs	VOCs & DBPs	SOCs	PFC/PFAS	Other (specify):
☐ Lead	☐ VOC (VOC1)	☐ Phase II SOC	☒ PFAS by EPA 533	
☐ Copper	☐ TTHM	☐ Semivolatiles (PEST1)		
☐ Arsenic	☐ HAA5	☐ Herbicides (HERB1)		
	☐ TOC	☐ Carbamates (INSECT1)		
☐ Nitrate	☐ Alkalinity	☐ Pesticides (PEST1)		
	RADs	☐ EDB		
☐ Nitrite	☐ Gross Alpha	☐ Phase V SOC		
	☐ Gross Beta	☐ Diquat		
☐ WA Complete IOC	☐ RAD 226	☐ Endothall		
	☐ RAD 228	☐ Glyphosate		
☐ Asbestos	☐ Uranium	☐ Dioxin		

Customer Signature	[redacted]	Received By	JD
Shipping/Delivery Date	5/4/2023	Date/Time Rec'd	10:24 5/5/23

Samples submitted to Anatek Labs may be subcontacted to other accredited labs if necessary. This message serves as notice of this possibility.

Subcontracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

Client Name: [redacted]

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes (No) Custody Seals Intact: Yes (No) (N/A)

Number of Coolers/Boxes: _____ Type of Ice: (Wet Ice) Ice Packs Dry Ice None

Packing Material: Bubble Wrap (Bags) Foam/Peanuts Paper None Other: _____

Cooler Temp As Read (°C): 1.7 Cooler Temp Corrected (°C): _____ Thermometer Used: IR-5

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present/Complete?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	(Yes)	No	Unknown	
Total Number of Sample Bottles Received: 3				

				Initial pH:	pH Paper ID:
Samples Properly Preserved?	(Yes)	No	N/A	<2 or	
If No, record preservation and pH after details					
VOC Vials Free of Headspace (<6mm)?	Yes	No	(N/A)		
VOC Trip Blanks Present?	Yes	No	(N/A)		

Record preservatives (and lot numbers, if known) for containers below:

P2SO NH_4Ac x 3

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: [signature] Date/Time: 10:24 5/5/23

Form F19.01 - Eff 1 Dec 2022