FINAL Preliminary Assessment Report Biak Training Center Brett Hall, Oregon

Perfluorooctane-Sulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) Impacted Sites ARNG Installations, Nationwide

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Acronyms and Abbreviations

°F	degrees Fahrenheit
AECOM	AECOM Technical Services, Inc.
AFFF	aqueous film forming foam
amsl	above mean sea level
AOI	area of interest
ARNG	Army National Guard
bgs	below ground surface
BLM	Bureau of Land Management
Brett Hall	Biak Training Center Brett Hall
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	conceptual site model
DEQ	(Oregon) Department of Environmental Quality
FBI	Federal Bureau of Investigation
FTA	fire training area
OMD	Oregon Military Department
MOUT	Military Operations on Urban Terrain
PA	Preliminary Assessment
PFAS	per- and poly-fluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
SI	Site inspection
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFS	US Forest Service
USGS	United States Geological Survey

Executive Summary

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide*. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS) (a suite of related chemicals), primarily in the form of aqueous film forming foam released during firefighting activities or training, although other PFAS sources are possible.

AECOM completed a PA for PFAS at Biak Training Center Brett Hall in Powell Butte, Oregon, to assess potential PFAS release areas and exposure pathways to receptors. The facility has operated at the Redmond location since 1998 under a license agreement with the USACE. The approximate 100-acre facility was originally developed in the early 1980s by the Department of Defense (OMD, 2018a). The underlying land manager is the Bureau of Land Management (BLM) Prineville. Military training operations are conducted on-Post that involves military personnel and vehicles. The State mission of Brett Hall is to provide community and training support for citizens of the State and US. The Federal mission of Brett Hall is to provide facilities and resources contributing to a high degree of readiness and military capability for the military of the State and US (OMD, 2018b). Brett Hall is part of a larger property totaling approximately 31,400 acres used by military personnel for various training operations (OMD, 2019).

The facility is developed with an operations building in the north/central portion and two warehouses (one each at the northwestern and southwestern corners). Military training areas are located in the southern and western portions of the installation boundary that include a Military Operations in Urban Terrain Site, graveled vehicle staging area, and ropes courses (OMD, 2018c). The facility is primarily unpaved, vegetated land. The operations building is surrounded by pavement with a helipad and parking area in the southern portion. A paved road traverses the central portion of the facility in a north/south direction, with access/egress at the northwestern and southwestern corners. The facility is used by both military and non-military personnel for training operations.

The performance of this PA included the following tasks:

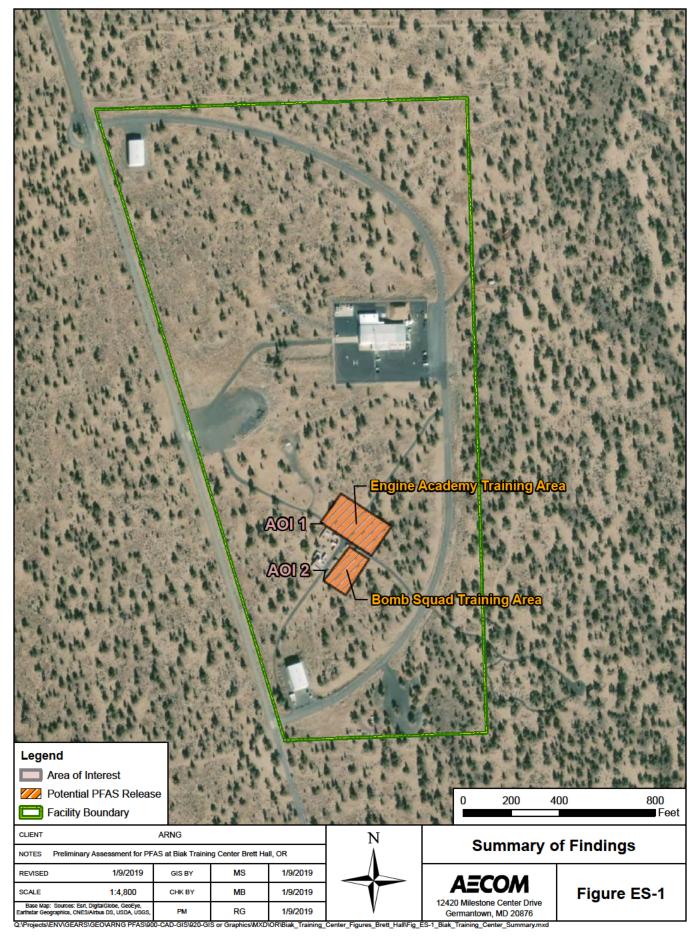
- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit on 5 October 2018
- Interviewed current and retired Brett Hall personnel during the site visit including:
 - Oregon Military Department (OMD) Environmental Manager
 - OMD Natural Resources Conservation Manager
 - OMD Wildland Fire Manager
 - OMD (Camp Rilea) Training Site Manager (former State Aviation Officer)
 - OMD Fire Ranger
 - OMD Base Operations Supervisor
 - OMD Real Estate/Property Manager
- Interviewed current US Forest Service Personnel
 - Unit Aviation Officer, Central Oregon Fire Management Services, Prineville District BLM

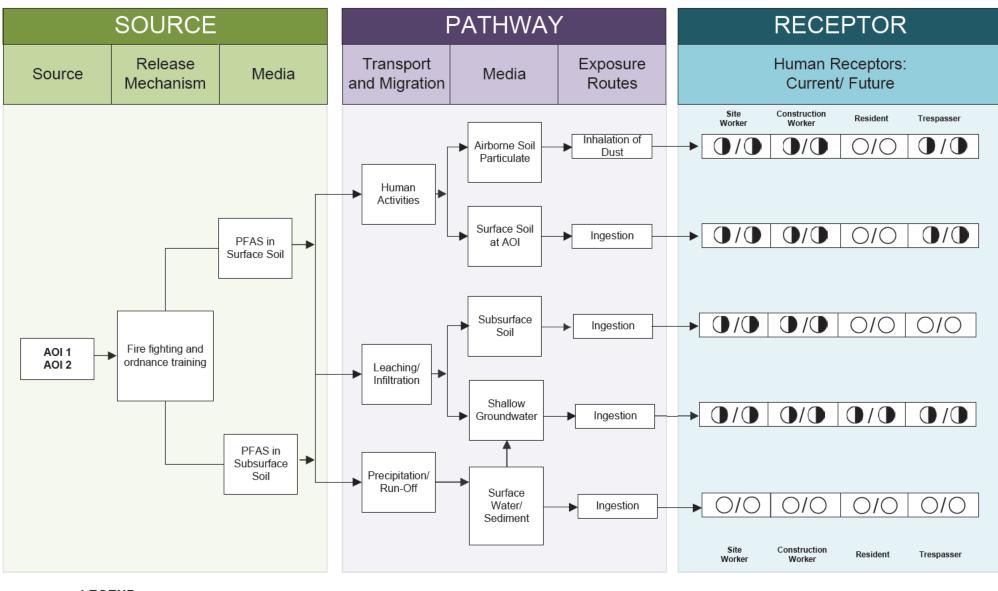
- Fire Operations Specialist, Central Oregon Fire Management Services, Prairie Division BLM
- Completed visual site inspections of the facility and documented with photographs
- Developed a conceptual site model (CSM) to outline the potential release, pathway, and receptors of PFAS for Brett Hall

Two areas of interest (AOIs) related to potential PFAS releases were identified at Brett Hall during the PA. The AOIs are shown on **Figure ES-1** and described below.

Area of Interest	Name	Used by	Potential Release Dates
AOI 1	Engine Academy Training Area	United States Forest Service	2000 to 2011 and 2013 to 2015
AOI 2	Bomb Squad Training Area	Federal Bureau of Investigation, local fire departments and law enforcement agencies (City of Bend, City of Prineville, and Crook County)	2016 to 2017

Based on potential releases at these AOIs, there is potential for exposure to PFAS contamination in surface soil to site workers, construction workers, and trespassers via ingestion and inhalation; in subsurface soil to site and construction workers via ingestion; and in groundwater for site workers, construction workers, trespassers, and off-facility residents via ingestion. No off-Post sources of PFAS were identified in the local area surrounding Brett Hall. The CSM for Brett Hall is shown on **Figure ES-2**.





LEGEND

Flow-Chart Stops

Flow-Chart Continues

--> Partial / Possible Flow

) Incomplete Pathway

Potentially Complete Pathway

Complete Pathway

Figure ES-2 Conceptual Site Model Biak Training Center Brett Hall

1. Introduction

1.1 Authority and Purpose

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide* under Contract Number W912DR-12-D-0014, Task Order W912DR17F0192, issued 11 August 2017, and Modification 01 issued 30 September 2017. The ARNG is assessing potential effects on human health related to processes at their facilities that used per- and poly-fluoroalkyl substances (PFAS) (a suite of related chemicals), primarily releases of aqueous film forming foam (AFFF), although other sources of PFAS are possible. In addition, the ARNG is assessing businesses or operations adjacent to the ARNG facility (not under the control of ARNG) that could potentially be responsible for a PFAS release.

PFAS are classified as emerging environmental contaminants that are garnering increasing regulatory interest due to their potential risks to human health and the environment. PFAS formulations contain highly diverse mixtures of compounds. Thus, the fate of these PFAS compounds in the environment will vary. The regulatory framework at both federal and state levels continues to evolve. The US Environmental Protection Agency (USEPA) issued Drinking Water Health Advisories for PFOA and PFOS in May 2016, but there are currently no promulgated national standards regulating PFAS in drinking water. In the absence of federal maximum contaminant levels, some states have adopted their own drinking water standards for PFAS. The Oregon Department of Environmental Quality (DEQ) has Pollutant Initiation Levels for PFAS/PFOA, which are not water quality standards (DEQ, 2017). According to OAR 340-045-0100, only facilities that operate under National Pollution Discharge Elimination System and Water Pollution Control Facility permits in Oregon are required to analyze effluent for PFAS/PFOA and report concentrations that exceed the Initiation Level.

This report presents findings of a PA for PFAS at Biak Training Center Brett Hall (Brett Hall) in Powell Butte, Oregon, in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, the National Oil and Hazardous Substances Pollution Contingency Plan (40 Code of Federal Regulations Part 300), and USACE requirements and guidance.

This PA documents potential locations of fire training areas (FTAs) as well as additional potential locations where PFAS may have been released into the environment at Brett Hall. The term PFAS will be used throughout this report to encompass all PFAS chemicals being evaluated, including PFOS and PFOA, which are key components of AFFF.

1.2 Preliminary Assessment Methods

The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit on 5 October 2018
- Interviewed current and retired Brett Hall personnel during the site visit including:
 - Oregon Military Department (OMD) Environmental Manager
 - OMD Natural Resources Conservation Manager

- OMD Wildland Fire Manager
- OMD (Camp Rilea) Training Site Manager (former State Aviation Officer)
- OMD Fire Ranger
- OMD Base Operations Supervisor
- OMD Real Estate/Property Manager
- Interviewed current US Forest Service Personnel
 - Unit Aviation Officer, Central Oregon Fire Management Services, Prineville District Bureau of Land Management (BLM)
 - Fire Operations Specialist, Central Oregon Fire Management Services, Prairie Division BLM
- Completed visual site inspections of the facility and documented with photographs
- Developed a conceptual site model (CSM) to outline the potential release, pathway, and receptors of PFAS for Brett Hall

1.3 Report Organization

This report has been prepared in accordance with the USEPA *Guidance for Performing Preliminary Assessments under CERCLA* (USEPA, 1991). The report sections and descriptions of each are:

- **Section 1 Introduction:** identifies the project purpose and authority and describes the facility location, environmental setting, and methods used to complete the PA.
- Section 2 Fire Training Areas: describes the FTAs at the facility identified during the site visit.
- Section 3 Non-Fire Training Areas: describes other locations of potential PFAS releases at the facility identified during the site visit.
- Section 4 Emergency Response Areas: describes areas of potential PFAS release at the facility, specifically in response to emergency situations.
- Section 5 Adjacent Off-Site Sources: describes sources of potential PFAS release adjacent to the facility that are not under the control of ARNG.
- Section 6 Conceptual Site Model: describes the pathways of potential PFAS transport and receptors at each Area of Interest (AOI).
- Section 7 Conclusions: summarizes the data findings and presents the conclusions of the PA.
- Section 8 References: provides the references used to develop this document.
- Appendix A Data Resources
- Appendix B Preliminary Assessment Documentation
- Appendix C Photographic Log

1.4 Facility Location and Description

Brett Hall is in Powell Butte, Crook County, approximately 4 miles to the southeast of the City of Redmond and approximately 14 miles to the northeast of the City of Bend. Brett Hall is located approximately 2.5 miles to the south of Highway 126 (**Figure 1-1**). Brett Hall is occupied and

operated by the Oregon Army National Guard as a military training center, encompassing 100 acres. Training involves military personnel and civilian personnel, such as law enforcement, fire departments, and state agencies. The State mission of Brett Hall is to provide community and training support for citizens and organizations of the state and US. The federal mission of Brett Hall is to provide facilities and resources for a training center contributing readiness and military capability for the armed forces of the state and US (OMD, 2018a).

Brett Hall includes one building used as the training center, two warehouse buildings, and an exterior training area known as the Military Operations in Urban Terrain (MOUT) range. The entire facility is unpaved, with exception for the main road and the parking lot surrounding the building. Numerous conex containers are located at the MOUT range, used for military operations and firefighting training. The US Forest Service (USFS) Engine Academy conducted annual fire training at the MOUT range from 2010 to 2015. The annual training included local fire departments, and local law enforcement agencies (city/county/state agencies), facilitated by OMD. Annual bomb squadron training occurred at the MOUT in 2016 and 2017, which include local law enforcement led by the Federal Bureau of Investigation (FBI). Both the FTA and bomb squadron training area involved the use of AFFF. Access to the facility is not controlled. Brett Hall draws drinking water from one well that receives no treatment and has a septic system discharging to an adjacent leach field.

A dedicated Wildland Fire Program is located at the facility with the mission of providing safety and training resources. The program provides wildland fire suppression and supports military training operations during fire seasons. The OMD collaborates with the BLM Prineville District for ecosystem management (OMD, 2018b). The OMD also collaborates with the USFS and local fire departments for fire response. According to interviews conducted with the OMD Fire Officer, OMD fire rangers respond to fire emergencies in the area as necessary (if other agencies are not available).

The present-day Brett Hall property is owned by the federal government, administered by the USACE, licensing use to the OMD since 2002. Brett Hall is within the Biak Training Center, comprised of 4,300 acres owned by the BLM Prineville and leased to the OMD.

Based on review of historical aerial photographs, development of the installation appears by 1994 with the main building and two warehouse structures, and the paved roadway. Development of the MOUT range appears by 2006. The facility appears to be in similar configuration as observed during the site visit. (EDR, 2018a; Google Earth, 2018).

1.5 Facility Environmental Setting

Brett Hall is in the Deschutes Columbia Plateau geologic province of Oregon (DEQ 2013; USDI, 2018) and bordered by undeveloped land along all four sides. Brett Hall is comprised mostly of undeveloped, vegetated land underlain by historic volcanic lava flow beds. The areas of the facility that are paved include the road to enter/exit the facility from the northwest and southwest and the parking area surrounding the main building. The paved areas are primarily flat. From west to east, elevation at the facility ranges from approximately 3,080 and increases to 3,100 feet above mean sea level (amsl). From north to south, elevation ranges from approximately 3,085 and increases to approximately 3,095 feet amsl. Elevation throughout the facility averages 3,100 feet amsl. Topography at the site follows a northwest gradient (Google Earth, 2018) (EDR, 2018b).

1.5.1 Geology

Brett Hall is in a geologic area characterized as basalt and basaltic andesite of the Pleistocene to Holecene ages. This geologic feature occurs primarily along the crest of the Cascade Range (located to the west of the facility) (USGS, 2018a). These basaltic lava flows are the most

widespread types of surface rocks in the region, with the oldest basalt lava flows exposed west of the Deschutes River (west of the facility). Vents from the lava flows are dispersed throughout the region as lava and cinder cones. The lava terrain covers the region as generally thin sheets of pahoehoe basalt associated with historic fissure eruptions where the surface appears ropy with depressions, known as "Lava Badlands." The lava flows were estimated to extend from the land surface to 50 to 100 feet below ground surface (bgs). The Lava Badlands consist of a lava tube system, indicative of a lateral spread of lava. The Redmond Caves is one such lava tube system, located approximately 4 miles northwest of Brett Hall (DOGAMI, 1976).

Brett Hall is underlain by volcanic deposits of the Quaternary system of the Cenozoic era (EDR, 2018b). These deposits constitute the second major composite stratigraphic unit in the region, which is reported extending to depths over 2,000 feet in some areas. This composition is comprised of lava flows, domes, vent deposits, pyroclastic deposits, and volcanic sediments (USGS, 2001). The volcanic rocks consist of ash and cinders while the sedimentary rocks consist of semi-consolidated sand and gravel eroded from volcanic rocks (USGS, 1994, 2018b).

1.5.2 Hydrogeology

Soils beneath Brett Hall consist primarily of Stukel-Deschutes complex (140B, 0 to 8 percent slope) within most of the facility boundary and Stukel-Rock outcrop-Deschutes complex (142B, 0 to 8 percent slope) in the eastern portion of the facility (USDA, 2018). Both soil series consist of shallow, well drained soils with moderately rapid permeability located in lava plains that formed in ash (USDA, 1999). The Deschutes complex is characterized as sandy loam in the top 31 inches, followed by basalt at 31 inches. The Stukel complex is characterized as sandy and cobbly sandy loam in the top 11 inches, followed by gravelly sandy loam to 18 inches bgs, and basalt at 18 inches bgs. Bedrock of the Deschutes series is reported at 20 to 40 inches bgs while bedrock of the Stukel series is reported at 10 to 20 inches bgs (USDA, 1999).

Brett Hall is above the Deschutes Formation, which is the principle aguifer in the Upper Deschutes Basin. Because of the large amount of rainfall that occurs, the Cascade Range is the principal groundwater recharge area for the Upper Deschutes Basin. Groundwater from the Cascade Range flows through the permeable volcanic rock towards the east into the Upper Deschutes Basin, where half of the volume discharges to streams and the other half of the volume flows through the subsurface of the Deschutes Formation, eventually discharging to streams. Groundwater discharge to streams is the principle mechanism of groundwater losses in the system where stream elevation is lower than the groundwater table. Groundwater discharges to streams occurs to the west of Brett Hall, surrounding the confluence of the Deschutes River (west of Bend). The Deschutes River maintains substantial flow during dry periods. Stream discharge varies, however, by location and seasonal precipitation. Regionally, the water table fluctuates in association with recharge. Infiltration of precipitation in the region occurs from rainfall, snowmelt, canal and stream leaks, and irrigation water applied to farm fields. The United States Geological Survey (USGS) estimated annual recharge from infiltration of precipitation in the area surrounding the facility ranging from 3 to 4.5 inches. Recharge averages 35 to 40 percent of the annual precipitation measured throughout the Upper Deschutes Basin (USGS, 2001).

Groundwater flow at the facility would generally follow the topographic gradient to the northwest. Groundwater flow may vary in localized areas of groundwater recharging to surface water. Groundwater flow at the facility cannot be determined without conducting a site-specific assessment. Brett Hall obtains drinking water through one onsite water supply well located in the north-central portion of the facility, in the northwest corner of the building (Well #1852) (**Figure 1-2**). The geographic coordinates of the water well are: 44°13'23.27"N and 121° 5'56.19"W. This well was completed in January 1985, drilled to a depth of 492 feet bgs; depth to

first water was reported at 370 feet bgs (OWRD, 2018). Several drinking water source areas with active public and private groundwater systems were identified near Brett Hall, as follows:

- Redmond Water Department (PWS ID OR4100693) approximately 2 miles to the northwest with 9,800 connections serving approximately 30,000 people (DEQ, 2018a).
- Avion WC Red Cloud (PWS ID OR4101203) approximately 2 miles to the northeast with 177 connections serving approximately 440 people (DEQ, 2018a).
- ORARNG COUTES private water supply (PWS ID OR41-05957) approximately 3 miles to the northwest with a single connection (the COUTES facility) serving 20 people. The groundwater well serving the COUTES facility is state regulated (OHA, 2019).

The nearest USGS monitoring well is located approximately 6.5 miles to the northeast of the facility (Site No. CROO0001954). The geographic coordinates are: 44°14'41.28"N and 120°58'3.72"W. This well was drilled to 450 feet bgs and depth to groundwater measurements are reported ranging from 245 to 315 feet bgs (measured between 1981 and 2018) (USGS, 2018b).

1.5.3 Hydrology

Brett Hall is within the Town of O'Neill Subwatershed (HUC 12), which is within the Mayfield Pond-Central Oregon Canal (HUC 10) watershed of the Lower Crooked subbasin (HUC 8), of the Deschutes Basin (HUC 6) (**Figure 1-3**). No surface water features are located at the facility. The nearest offsite surface waterbody is the Dry River located 1.5 miles to the east of the facility, flowing northeast/southwest. The Deschutes River is located approximately 8 miles to the west of Brett Hall, flowing northeast/southwest, and is a major tributary to the Columbia River (located along the Oregon-Washington boarder) (DEQ, 2018b). No wetlands are located at the facility (USFS, 2018).

The facility is primarily unpaved; paved areas include the roadway entering/exiting the facility from the northwest and southwest, and the parking area surrounding the building. Surface stormwater runoff from paved areas of the facility flows into stormwater catch basins surrounding the building, discharging to the west of the pavement (OMD, 2018d). Stormwater runoff to unpaved areas infiltrates the soil. Surface water runoff at Brett Hall would only occur during heavy precipitation events where precipitation exceeds the infiltration rate of soil.

1.5.4 Climate

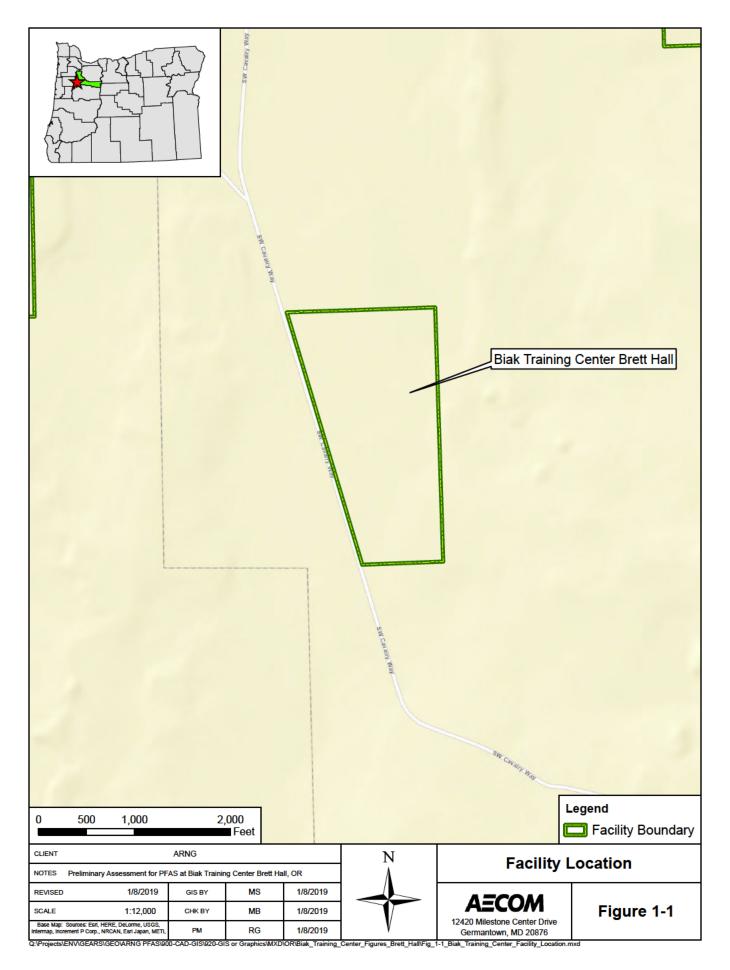
Climate in the Deschutes Basin is considered semiarid: moderate with cool, wet winters and warm, dry summers. The climate is driven by air masses developing in the Pacific Ocean (approximately 150 miles west of Brett Hall) and moving east over the Cascade Range (approximately 35 miles west of Brett Hall), dropping up to 200 inches of precipitation (rainfall and snow) annually (mostly snow during the winter). The Deschutes Basin's climate experiences annual and long-term variability. Precipitation decreases east of the Cascade Range Range significantly (USDA, 1966; USGS, 2001).

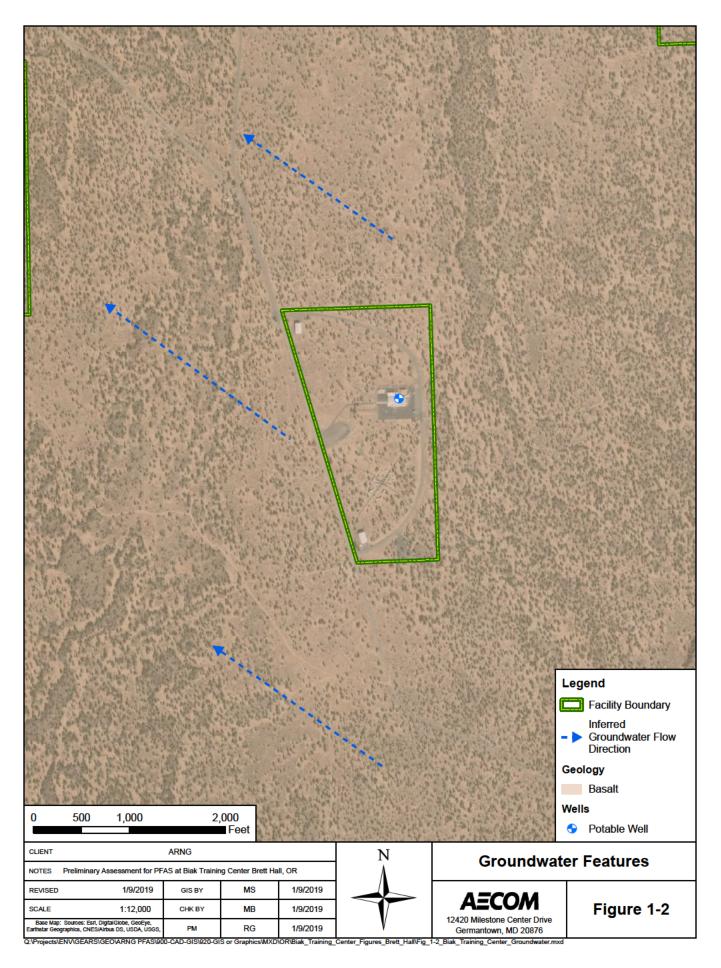
Weather data recorded at the Redmond Airport weather station (Station OR USW00024230), located approximately 2 miles to the northwest of Brett Hall, reported the following climatic measurements from 1990 to 2018: average annual precipitation of 8 inches, average annual snowfall of 9 inches, and average temperature of 49 degrees Fahrenheit (°F) (max of 86 °F) (NOAA, 2018).

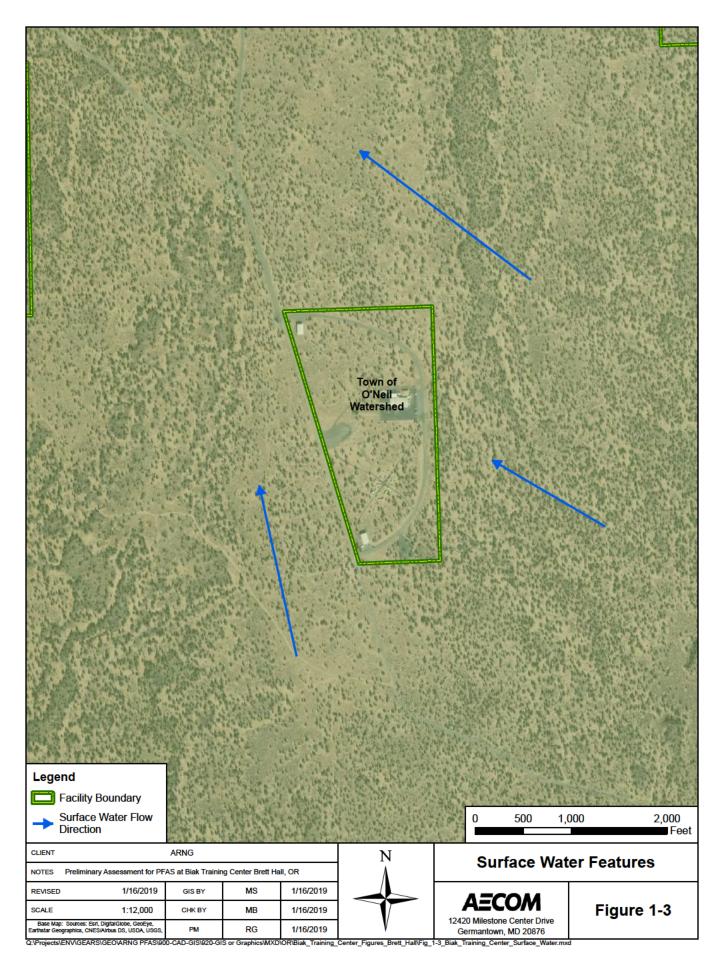
1.5.5 Current and Future Land Use

Brett Hall is zoned by Crook County as EFU3 – Exclusive Farm Use (CC, 2018). Brett Hall lies along the western boundary of Crook County, bordering Deschutes County to the east. The

nearest urban area is Redmond, approximately 4 miles to the northwest of the facility. The Redmond Airport is located approximately 2 miles to the northwest of the facility. According to the 2017 US Census, the estimated population of Redmond was 30,011. Based on the population estimates, Redmond's population has increased by nearly 3,800 since 2010 (Census, 2017). Land use surrounding the facility is primarily agricultural and zoned by Crook County as EFU3 – Exclusive Farm Use (CC, 2018). Land within 0.25 miles west of Brett Hall is zoned by Deschutes County as EFUAL – Alfalfa Subzone (DC, 2018). Highway 126 is located two miles mile to the north of the facility, which travels east/west from Redmond (west) to Prineville (east). Future land use is not anticipated to change.







2. Fire Training Areas

Two FTAs where PFAS was potentially released was identified during the PA. A description of the FTA is presented below and shown on **Figure 2-1**. Interview records appear in **Appendix B**. Photographs appear in **Appendix C**.

Additionally, two 5-gallon plastic containers of Class A foam (non-PFAS-containing) were observed stored in the Conex container to the east of the training center building, one containing PHOS-CHEK WD881 Class A foam concentrate and one containing Chemguard Class A Plus foam concentrate. Interviews with facility personnel indicate that these materials have been stored in the Conex for several years with an unknown origin and have not been used by OMD at Brett Hall. OMD facility personnel believe the foam was stored in this location from prior use during training events by other agencies.

2.1 Engine Academy Training Area

The USFS Engine Academy conducted annual fire training at Brett Hall, specifically within the MOUT range from 2000 to 2011 and 2013 to 2015. The geographic coordinates of this FTA are: 44°13'15.20"N and 121° 5'58.38"W. The USFS used the Brett Hall MOUT range to showcase applications of AFFF for extinguishing fires on structures. No fires were set during the training events; however, AFFF was applied to wooden structures. During the site visit, these structures were not observed. According to interviewed facility personnel, OMD facilitated the annual trainings. No information was available regarding the type and amount of AFFF potentially released during the annual training events.

2.2 Bomb Squad Training Area

Annual bomb squad training was conducted at Brett Hall, specifically within the MOUT range, from 2016 to 2017. The geographic coordinates of the bomb squad training area are: 44°13'13.43"N and 121° 5'58.85"W. The FBI, local fire departments, and local law enforcement agencies (City of Bend, City of Prineville, and Crook County) conducted bomb training at the Brett Hall MOUT range. According to interviewed facility personnel, OMD facilitated the annual trainings. At least two five-gallon containers of AFFF were used during the two training events; no information was available regarding the type of AFFF potentially released during the annual training events.



VOR\Biak_Training_Center_Figures_Brett_Hall\Fig_2-1_Biak_Training_Center_Fire_Training_A

3. Non-Fire Training Areas

Based on interviews conducted with facility personnel and historical research, no non-FTAs were identified at Brett Hall during the PA. Interview records appear in **Appendix B**.

4. Emergency Response Areas

Based on interviews conducted with facility personnel, no emergency response action areas using AFFF has occurred at Brett Hall. According to the Site Training Manager, no rotary-winged or other aircraft crashes have been reported. Two fire trucks containing water only are staged at the facility for emergency use. Should there be a need, Class A foam (non-PFAS-containing) is added to the fire truck tanks; however, no foam has been added to the fire truck tanks and no foam is currently in the fire truck tanks. Coordination of firefighting support via water trucks is made with the City of Redmond Fire Department (**Appendix B**).

5. Adjacent Sources

No potential off-Post sources of PFAS contamination were identified during the PA. Interview records appear in **Appendix B**. Based on interviews conducted with facility personnel and review of Oregon DEQ's *Facility Profiler Lite* and *Environmental Cleanup Site Information* databases, and USEPA's *National Priority List and Superfund Alternative Approach Sites* database, there were no historic or currently active private or municipal wastewater treatment plants, historic or currently active landfills, historic or currently active electrical maintenance or chrome plating shops, or Superfund Sites located in the vicinity of Brett Hall (DEQ, 2018b, 2018c; USEPA, 2018).

6. Conceptual Site Model

Based on the PA findings, two release areas were identified as AOIs at Brett Hall. The AOI locations are shown on **Figure 6-1**. The following section describes the CSM components and the specific CSM developed for the AOI. A CSM identifies three components necessary for potentially complete exposure pathways related to a site: (1) source, (2) pathway, and (3) receptor. If any of these elements are missing, the pathway is considered incomplete.

In general, the potential PFAS exposure pathway is ingestion. Dermal contact is not considered to be a potential exposure pathway as studies have shown very limited absorption of PFAS through the skin (National Ground Water Association [NGWA], 2018). Receptors for Brett Hall include site workers, construction workers, and trespassers. The CSM for the AOIs indicate which specific receptors could potentially be exposed to PFAS.

6.1 AOI 1 Engine Academy Training Area

AOI 1 is at the MOUT range approximately 660 feet southwest of the facility building. Releases of PFAS to soil by the USFS Engine Academy occurred at AOI 1 between 2000 and 2011 and between 2013 and 2015. The MOUT range (and surrounding area) is unpaved. According to interviewed facility personnel, no fires were set at this FTA, AFFF was applied to wooden structures as training exercises to showcase applications of AFFF in fire situations. The concentration and amount of AFFF released during the training events is unknown based on interviews conducted with OMD facility personnel and the USFS personnel.

PFAS are water soluble and can migrate readily from soil to groundwater via leaching. Because PFAS releases to surface and subsurface soil have occurred, it is possible that PFAS migrated from the surface soil at AOI 1 to groundwater via leaching. Based on visual observations conducted during the site visit and online research, no surface water features or wetlands are located within AOI 1 or the immediate surrounding area downgradient of AOI 1 (DEQ, 2018b). Precipitation infiltrating AOI 1 may cause the migration of PFAS from surface and subsurface soil to groundwater, which is estimated to be within 370 feet bgs (OWRD, 2018). Groundwater flow typically follows the natural topographical gradient. Around AOI 1, subsurface flow is generally to the northwest. One onsite drinking water well is in the north-central portion of the facility, approximately 850 feet to the north and downgradient of AOI 1. One drinking water source area with public groundwater systems (Redmond Water Department) is located approximately 2 miles to the northwest and downgradient of AOI 1, serving approximately 30,000 people (DEQ, 2018a). One private drinking water source area is located approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving approximately 3 miles to the northwest and downgradient of AOI 1, serving 20 people (OHA, 2019).

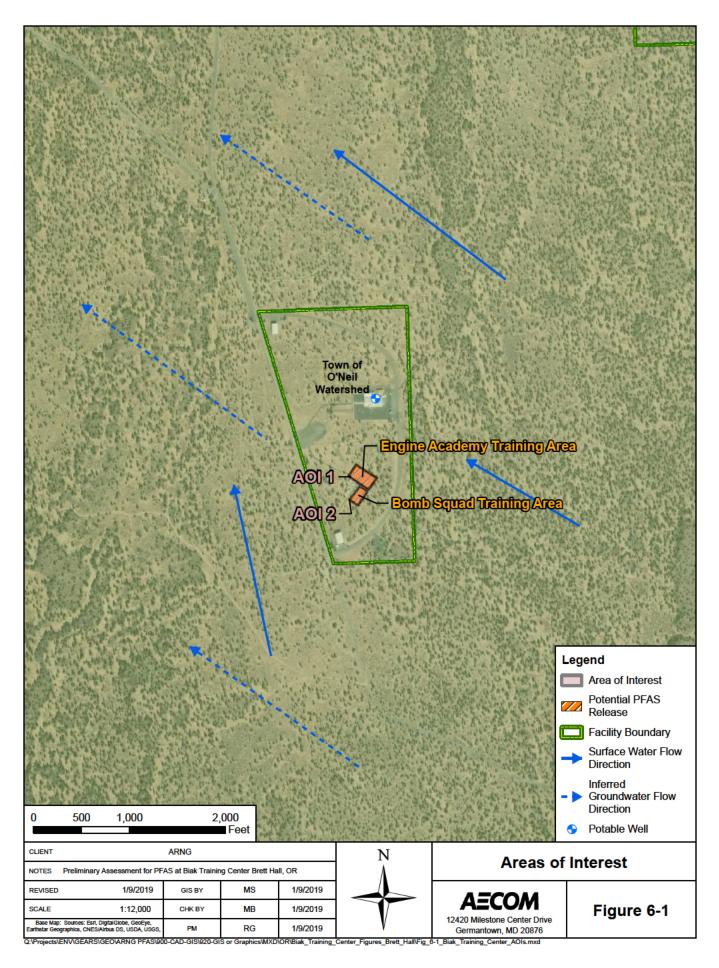
Groundwater flow at Brett Hall is inferred to be to the northwest, supply wells for drinking water are located downgradient of AOI 1; therefore, the exposure pathway for groundwater via ingestion is potentially complete for site workers, construction workers, trespassers, and off-facility residents.

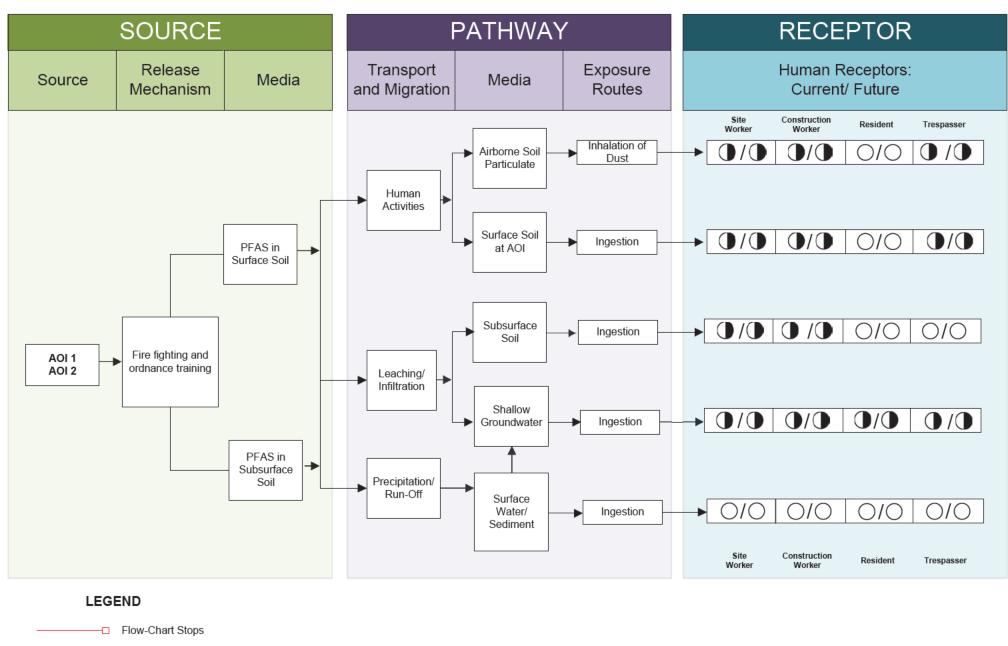
Ground-disturbing activities to surface soil at AOI 1 could result in site worker, construction worker, and trespasser exposure to potential PFAS contamination via inhalation of dust particles or ingestion of surface soil. Ground-disturbing activities to subsurface soil could result in site and construction worker exposure to potential PFAS contamination via inhalation of dust particles or ingestion of subsurface soil. Therefore, the exposure pathways for ingestion of soil are potentially complete for these receptors. The CSM for AOI 1 is shown on **Figure 6-2**.

6.2 AOI 2 Bomb Squad Training Area

AOI 2 is at the MOUT range approximately 830 feet southwest of the facility building, adjacent to AOI 1. Releases of PFAS to soil occurred at AOI 2 during training events conducted by the FBI between 2016 and 2017. The MOUT range (and surrounding area) is unpaved. According to interviewed facility personnel, no fires were set at this training area and AFFF was applied during bomb squad training exercises. The concentration and amount of AFFF released during the training events is unknown based on interviews conducted with OMD facility personnel. Interviews with FBI personnel were not conducted.

Because potential PFAS releases to surface soil at AOI 2 have occurred, PFAS may have migrated from the surface soil to the subsurface soil and to the groundwater via leaching. The pathways and receptors for AOI 2 are the same as described in **Section 6.1**. The CSM for AOI 2 is shown on **Figure 6-2**.





Flow-Chart Continues

--> Partial / Possible Flow

) Incomplete Pathway

Potentially Complete Pathway

Complete Pathway

Figure 6-2 Conceptual Site Model AOI 1 Engine Academy Training Area and AOI 2 Bomb Squad Training Area

7. Conclusions

This report presents a summary of available information gathered during the PA on the use and storage of AFFF and other PFAS-related activities at Brett Hall. The PA findings are based on the information presented in **Appendix A** and **Appendix B**.

7.1 Findings

The two AOIs related to potential PFAS release were identified at Brett Hall (**Table 7-1**) during the PA through interviews with facility personnel (**Figure 7-1**).

Area of Interest	Name	Used by	Potential Release Dates
AOI 1	Engine Academy Training Area	USFS	2000 to 2011 and 2013 to 2015
AOI 2	Bomb Squad Training Area	FBI, local fire departments and law enforcement agencies (City of Bend, City of Prineville, and Crook County)	2016 to 2017

Table 7-1: AOIs at Brett Hall

Based on potential PFAS releases at these AOIs, there is potential for exposure to PFAS contamination in surface soil to site workers, construction workers, and trespassers via ingestion and inhalation; in subsurface soil to site and construction workers via ingestion and inhalation; and in groundwater to site workers, construction workers, trespassers, and off-facility residents via ingestion. No off-Post sources of PFAS were identified in the local area surrounding Brett Hall.

7.2 Uncertainty

A number of information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been present, used, or released at the facility. Historically, documentation of PFAS use was not required because PFAS were considered benign. Therefore, records were not typically kept by the facility or available during the PA on the use of PFAS in training, firefighting, or other non-traditional activities, or on its disposition.

The conclusions of this PA are predominantly based on the information provided during interviews with personnel who had direct knowledge of PFAS use at the facility. Sometimes the provided information was vague or conflicted with other sources. Gathered information has a degree of uncertainty due to the absence of written documentation, the limited number of personnel with direct knowledge due to staffing changes, the time passed since PFAS was first used (1969 to present), and a reliance on personal recollection. Inaccuracies may arise in potential PFAS release locations, dates of release, volume of releases, and the concentration of AFFF used. There is also a possibility the PA has missed a source of PFAS, as the science of how PFAS may enter the environment continually evolves.

To minimize the level of uncertainty, readily available data regarding the use and storage of PFAS were reviewed, retired and current personnel were interviewed, multiple persons were interviewed for the same potential source area, and potential source areas were visually inspected. **Table 7-2** summarizes the uncertainties associated with the PA.

Table 7-2: Uncertainties

Area of Interest	Source of Uncertainty
AOI 1	Facility personnel indicated that AFFF was used during the training events. No information was provided on the type, amount, or concentration of AFFF used. However, interviews with the USFS Central Oregon Fire Management Services personnel indicated that Class A (non-PFAS- containing) AFFF was used during past training events. The direction of groundwater flow identified in this report is inferred based on the evaluated topographic gradient.
AOI 2	Facility personnel indicated that AFFF was used during the training events. No information was provided on the type, or concentration of AFFF used. The FBI was not contacted to obtain information on historical training events and to confirm the type and volume of AFFF used. The direction of groundwater flow identified in this report is inferred based on the evaluated topographic gradient.

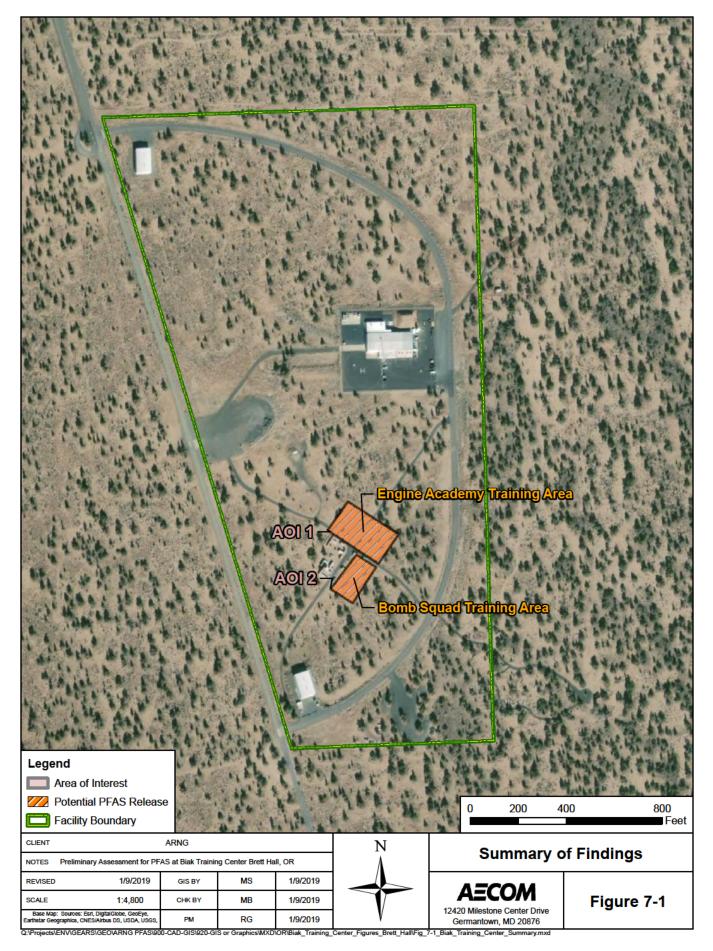
7.3 Potential Future Actions

Interviews and records (covering 2000 to present) indicate that current or former ARNG activities may have resulted in potential PFAS releases at the two AOIs identified during the PA. Based on the CSM developed for the AOIs, there is potential for receptors to be exposed to PFAS contamination in soil and groundwater at these AOIs. **Table 7-3** summarizes the rationale used to determine if the AOI should be considered for further investigation under the CERCLA process and undergo a Site Inspection (SI).

ARNG will evaluate the need for an SI at AOIs 1 and 2 at Brett Hall based on the potential receptors, the potential migration of PFAS contamination off-Post, and the availability of resources.

Area of Interest	AOI Location	Rationale	Potential Future Action
AOI 1 Engine Academy Training Area	44°13'15.20"N; 121° 5'58.38"W	OMD facilitated annual training. No information was available on the type and amount of AFFF released during the training events.	Proceed to an SI, focus on soil and groundwater
AOI 2 Bomb Squad Training Area	44°13'13.43"N; 121° 5'58.85"W	OMD facilitated annual training. No information was available on the type of AFFF used.	Proceed to an SI, focus on soil and groundwater

Table 7-3: PA Findings Summary



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Appendix A Data Resources

Data Resources will be provided separately on CD. Data Resources for Biak Training Center – Brett Hall include:

Biak Training Center Leases, Licenses, and Permits

• 2002 Department of the Army License for National Guard Purposes High Desert Training Center (HDTC) Redmond, Crook County, Oregon. License No. DACA67-3-98-267

Biak Training Center Installation Maps

- 2018 Facility Map Site #41902 Biak Training Center Brett Hall
- 2018 Facility Map Site #41902 Training Center

Biak Training Center – Brett Hall EDR Report

• 2018 Biak Training Center– Brett Hall Environmental Data Resource Report

NO. DACA67-3-98-267

834202

DEPARTMENT OF THE ARMY LICENSE FOR NATIONAL GUARD PURPOSES HIGH DESERT TRAINING CENTER (HDTC) REDMOND, CROOK COUNTY, OREGON

THE SECRETARY OF THE ARMY, hereinafter referred to as the Secretary, under the authority of Title 32, United States Code, Section 503, hereby grants to the State of Oregon, hereinafter referred to as the grantee, a license to use and occupy for training and support of the National Guard certain land and improvements, hereinafter referred to as the premises, as shown identified in Exhibits A and B, attached hereto and made a part hereof.

THIS LICENSE is granted subject to the following conditions:

1. TERM

This license is granted for an indefinite term, beginning 28 August 1998, but revocable at will by the Secretary.

2. SUPERVISION BY THE U.S. PROPERTY AND FISCAL OFFICER

The use and occupancy of the premises shall be without cost to the regular establishment of the military departments of the Department of Defense and shall be under the general supervision of the U.S. Property and Fiscal Officer, State of Oregon, hereinafter referred to as said officer, and subject to such rules and regulations as may be prescribed from time to time by said officer.

3. APPLICABLE LAWS AND REGULATIONS

The grantee shall comply with all applicable Federal, state, county, and municipal laws, ordinances, and regulations wherein the premises are located.

4. FACILITY MAINTENANCE

The grantee shall maintain and keep the premises in good repair and condition and all costs of operation, maintenance, and restoration shall be paid for from funds available to the grantee, or from funds other than those appropriated for the regular establishment of the military departments.

5. RIGHT TO USE

The United States, hereinafter referred to as the Government, reserves the right to use the premises, or any part thereof, including all buildings and improvements situated thereon, for such purposes as said officer deems necessary in the interest of national defense.

6. COST OF UTILITIES

The grantee shall pay the cost, as determined by the officer having immediate jurisdiction over the premises, of producing and/or supplying any utilities or other services furnished by the Government or through Government-owned facilities for the use of the grantee, including the grantee's proportionate share of the cost of operation and maintenance of the Government-owned facilities by which such utilities or services are produced and supplied. The Government shall be under no obligation to furnish utilities or services. Payment shall be made in the manner prescribed by the officer having such jurisdiction.

7. USE RESTRICTIONS

The buildings and improvements included in this license shall not be used for the quartering of personnel engaged in the National Guard activities except when such personnel are in the federal service or are participating in authorized training.

8. IMPROVEMENTS AND ALTERATIONS

Additions to or alteration or improvement of the premises shall not be made without prior written approval of the District Engineer. All such additions, alterations or improvements shall be maintained by the grantee in good repair and condition. All such work designated as permanent by said officer shall, upon completion, become property of the Government.

9. CONDITION OF PREMISES

The grantee acknowledges that it has inspected the premises, knows its condition, and understands that the same is granted without any representations or warranties whatsoever and without any obligation on the part of the Government.

10. TERMINATION

This license may be terminated by the grantee at any time by giving the District Engineer at least thirty (30) days notice in writing.

11. RESTORATION

On or before the expiration of this license or its termination by the grantee, the grantee shall vacate the premises, remove its property (except those permanent additions, alterations, and improvements which have become property of the Government under provision of the condition on **IMPROVEMENTS AND ALTERATIONS**) and restore the premises to a condition satisfactory to said officer, ordinary wear and tear and damage beyond the control of the grantee excepted. If, however, this license is revoked, the grantee shall vacate the premises, remove said property and restore the premises within such time as the District Engineer may designate. In either event, if the grantee fails to remove said property and restore the property of the Government without compensation therefor, or said officer may cause the property to be removed at the expense of the grantee, and no claim for damages against the Government shall be created on account of such action.

12. USE BY OTHERS

The grantee shall not transfer or assign this license, or any interest in the premises, however, upon concurrence of the National Guard, National Guard Bureau, the grantee may (1) permit the temporary or intermittent use of the premises by elements of the Department of Defense for joint use or individual training purposes, provided such use will not interfere with the National Guard use; or (2) issue licenses for nonprofit, community service-type activities under the same conditions as those allowed by active installation commanders by existing Army regulations.

13. PROTECTION OF PROPERTY

er - 21

a. The grantee shall keep the premises in good order and in a clean, safe condition by and at the expense of the grantee. The grantee shall be responsible for any damage that may be caused to property of the United States by the activities of the grantee under this license, and shall exercise due diligence in the protection of all property located on the premises against fire or damage from any and all other causes. Any property of the United States damaged or destroyed by the grantee incident to the exercise of the privileges herein granted shall be promptly repaired or replaced by the grantee to a condition satisfactory to said officer, or at the election of said officer, reimbursement made therefor by the grantee in an amount necessary to restore or replace the property to a condition satisfactory to said officer, in both instances taking into account the prior condition of the property.

b. Upon termination of the grantee's requirement for the premises, the grantee shall remain responsible to protect and maintain the premises until transfer to and acceptance by another accountability officer is accomplished or in accordance with applicable laws, rules and regulations.

14. ENVIRONMENTAL PROTECTION

a. Within the limits of their respective legal powers, the parties to this license shall protect the premises against pollution of its air, ground and water. The grantee shall comply with any laws, regulations, conditions or instructions affecting the activity hereby authorized if and when issued by the Environmental Protection Agency, or any Federal, state, interstate or local governmental agency having jurisdiction to abate or prevent pollution. The disposal of any toxic or hazardous materials within the premises is specifically prohibited. Such regulations, conditions or instructions in effect or prescribed by said Environmental Protection Agency, or any Federal, state, interstate or local governmental agency are hereby made a condition of this license. The grantee shall not discharge waste or effluent from the premises in such a manner that the discharge will contaminate streams or other bodies of water or otherwise become a public nuisance.

b. The grantee will use all reasonable means available to protect the environment and natural resources, and where damage nonetheless occurs from the grantee's activities, the grantee shall be liable to restore the damaged resources.

c. The grantee must obtain approval in writing from said officer before any pesticides or herbicides are applied to the premises.

15. PRELIMINARY ASSESSMENT SCREENING

1. Y. 1.

A Preliminary Assessment Screening (PAS), dated 13 April 1993, documenting the known history of the property at the time it was declared excess by AMC with regard to the storage, release or disposal of hazardous substances thereon, is attached hereto and made a part hereof as Exhibit C. Upon expiration, revocation or relinquishment of this license, a PAS shall be prepared which will document the environmental condition of the property at that time. A comparison of the two assessments will assist the said officer in determining any environmental restoration requirements. Any such requirements will be completed by the grantee to the satisfaction of the said officer.

16. HISTORICAL PRESERVATION

The grantee shall not remove or disturb, or cause or permit to be removed or disturbed, any historical, archeological, architectural, or other cultural artifacts, relics, or objects of antiquity. In the event such items are discovered on the premises, the grantee shall immediately notify said officer and protect the site and material from further disturbance until the said officer gives clearance to proceed.

17. NON-DISCRIMINATION

The grantee shall not discriminate against any person or persons or exclude them from participation in the grantee's operations, programs or activities conducted on the licensed premises because of race, color, religion, sex, age, handicap or national origin. The grantee by acceptance of this license, hereby gives assurance that it will comply with the provisions of Title VI of the Civil Rights Act of 1964 as amended (42 U.S.C. 2000d); the Age Discrimination Act of 1975 (42 U.S.C 6102); the Rehabilitation Act of 1973 as amended (29 U.S.C. 794); and all requirements imposed by or pursuant to the Department of Defense Directive 5500.11 (32 CFR Part 300) issued on December 28, 1964. **THIS LICENSE** is not subject to Title 10, United States Code, Section 2662, as amended.

IN WITNESS WHEREOF I have hereunto set my hand, by authority of the

215 - 11

Secretary of the Army, this _____8 day of _____, 2002___.

JØSEPH C. DUNCAN Chief, Real Estate Division

This license is executed by the grantee this _____ day of

., .

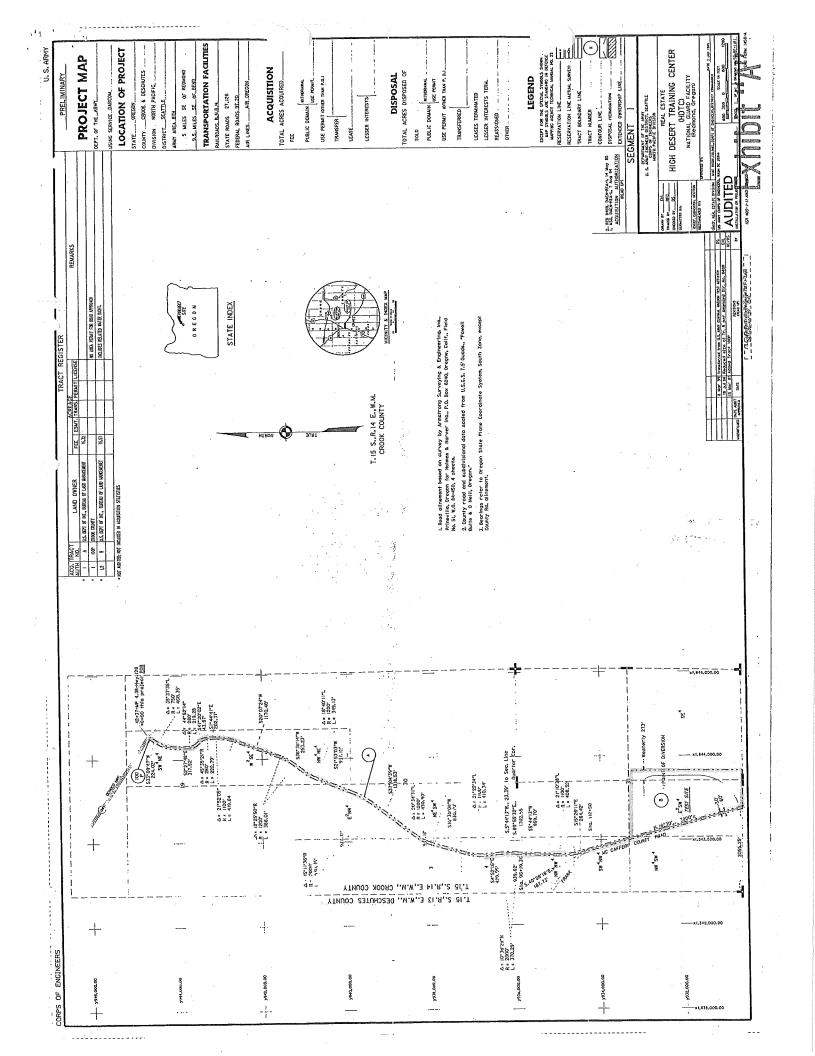
OREGON NATIONAL GUARD

Bv

alexander H. Burgin Print or Type Name

<u>Major General</u> Title

DACA67-3-98-267 State of Oregon High Desert Training Center, Redmond, OR



HIGH DESERT TRAINING CENTER (HDTC) NATIONAL GUARD FACILITY

Redmond, Oregon (76.43 ± acs.)

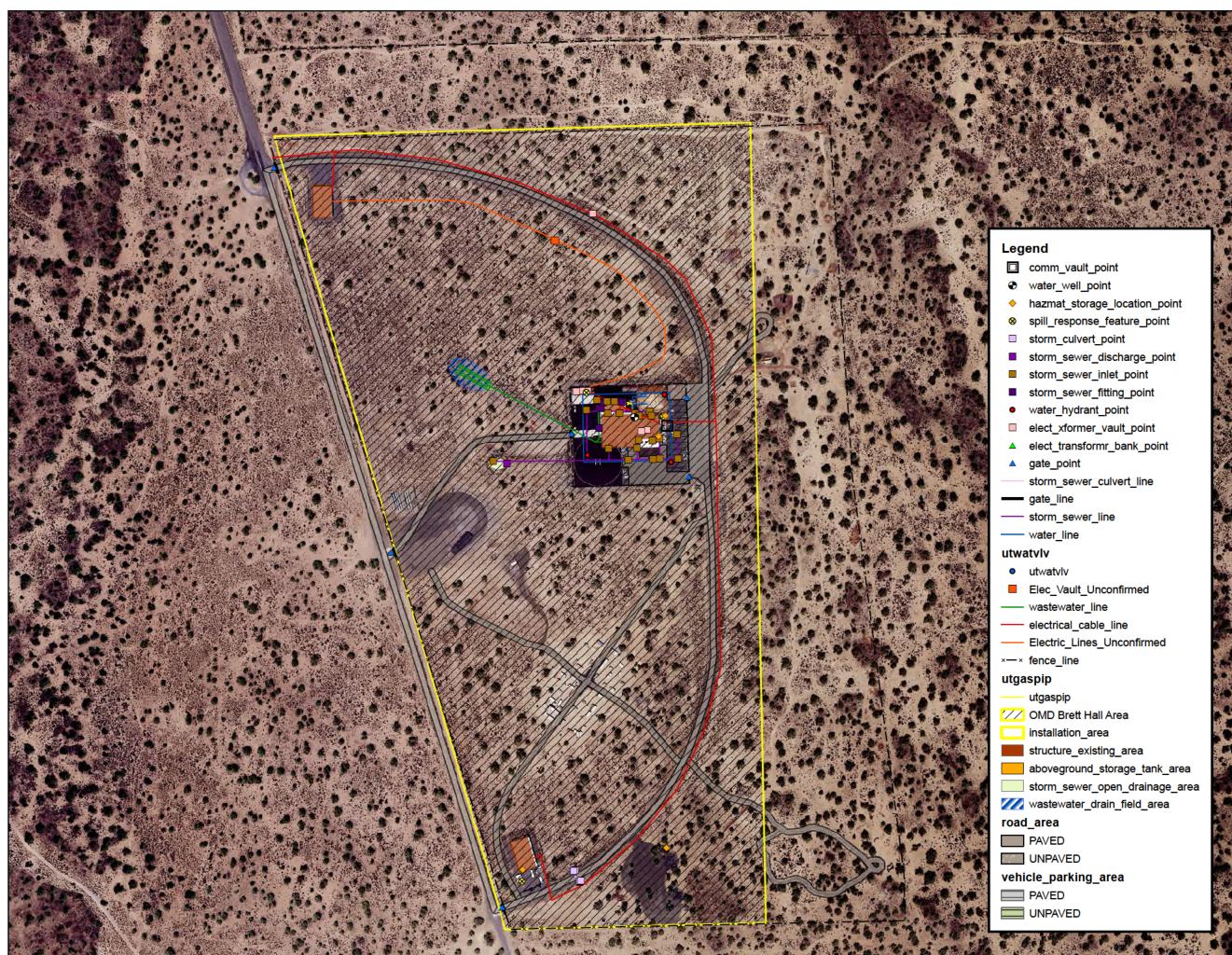
LEGAL DESCRIPTION

The westerly 273 feet of the southeast quarter (SE¹/₄) and that portion of the east half of the southwest quarter (E¹/₂SW¹/₄) lying easterly of the easterly right-ofway line of the Frank McCaffery County Road, in Section 31, Township 15 South, Range 14 East, Willamette Meridian, Crook County, Oregon.

Contains 76.43 acres, more or less.

By: SDM 07 OCT 93 Chkd: Prfd: Map No.: SE-RE-1181 Doc No.: 001650.DOC Rev: 7 Nov 01, changed project name Key: HRC 23 MAY 94





Site # 41902 **Training Center**







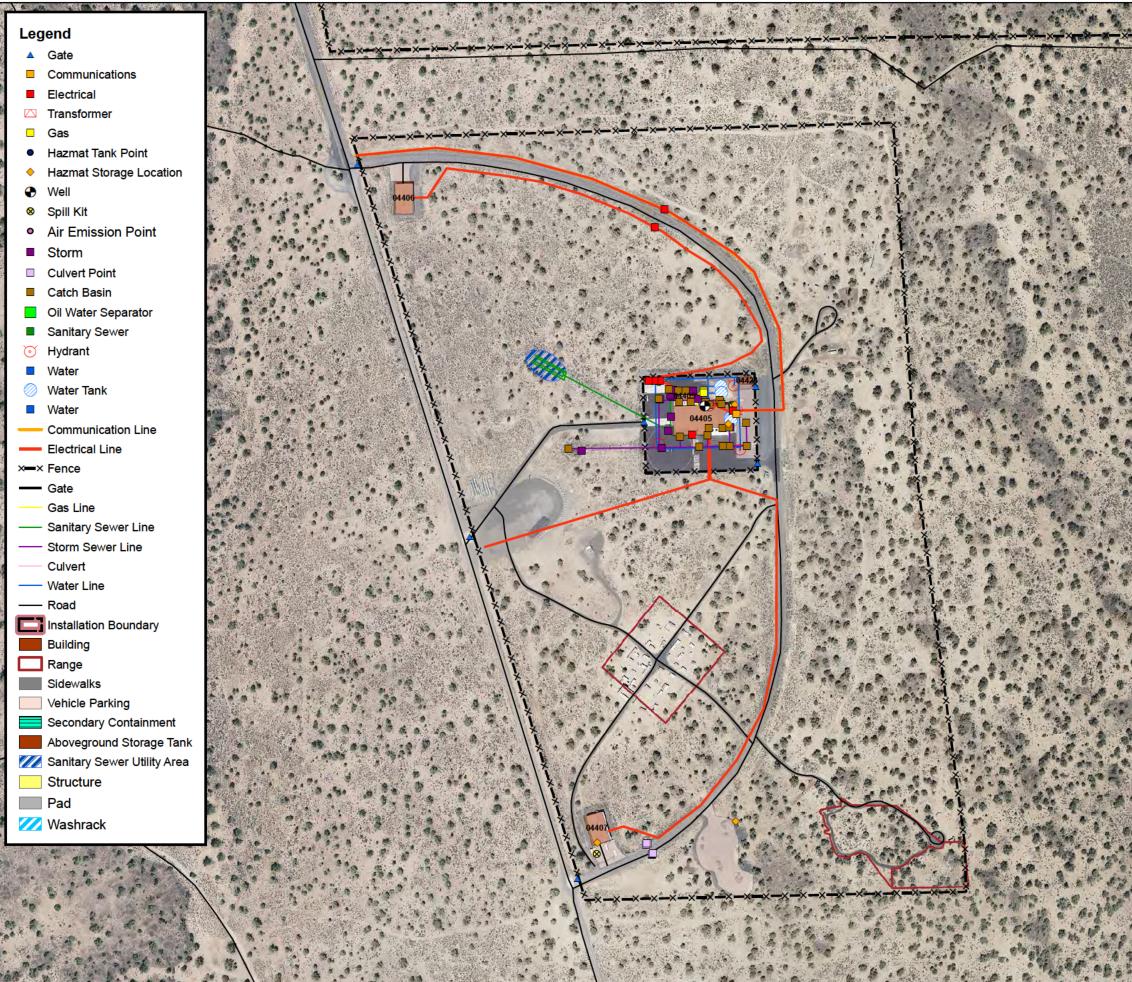
1 inch = 300 feet 600 150 300 0 Feet T: 15 S R: 13 E Sec: 23 NAD 83 UTM Zone 10 North Projection: Transverse Mercator 2015 AGI KH

No warranty is made by the Oregon Military Department as to the accuracy, reliability, or completeness of this data for individual or aggregate use with other data. This map is a "Living document," in that it is intended to change as new data becomes available and are incorporated into the OMD Enterprise GIS database



- Gate
- Communications
- Electrical
- Transformer
- Gas
- Hazmat Tank Point
- Hazmat Storage Location
- Well
- Spill Kit
- Air Emission Point
- Storm
- Culvert Point
- Catch Basin
- Oil Water Separator
- Sanitary Sewer
- **O** Hydrant
- Water
- Water Tank
- Water
- Communication Line Electrical Line
- ×=× Fence
- Gate
- Gas Line

- Culvert
- ----- Road
- Installation Boundary Building Range
- Sidewalks Vehicle Parking
- Secondary Containment Aboveground Storage Tank
- Manitary Sewer Utility Area Structure Pad
- Washrack

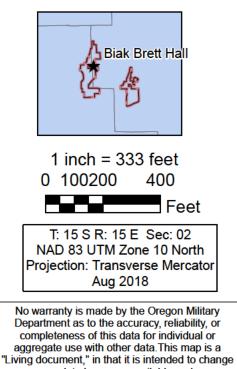




Site # 41902 Biak **Training Center** Brett Hall







as new data becomes available and are incorporated into the OMD Enterprise GIS database Fax To: AECOM Contact: Brittany Kirchmann Fax : 000-000-0000 Date: 10/25/2018

EDR PUR-IQ[®] Report

"the intelligent way to conduct historical research"

for Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753 Lat./Long. 44.22232 / 121.100826 EDR Inquiry # 5464929.2s

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports[®] comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory:	Coverage may exist for portions of Crook County, OR.	
2. Fire Insurance Map:	nsurance Map: When you order online any EDR Package or the EDR Radius Ma EDR Sanborn Map Search/Print, you receive site specific Sanbor Map coverage information at no charge.	
3. Aerial Photograph:	Aerial photography coverage may exist for portions of Crook County. Please contact your EDR Account Executive for information about USGS photos available through EDR.	
4. Topographic Map:	The USGS 7.5 min. quad topo sheet(s) associated with this site:	
Historical: Cove	rage exists for CROOK County	
Current: Targe	et Property:	TP 2014 6067496 Powell Butte, OR
Additional required for 1 Mile radius:		SW 2014 6067448 Forked Horn Butte, OR

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Powell Butte, OR. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



EDR - HISTORICAL SOURCE(S) ORDER FORM

AECOM Brittany Kirchmann Account # 1861179

Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753 CROOK County Lat./Long. 44.22232 / 121.100826 EDR Inquiry # 5464929.2s

Should you wish to change or add to your order, fax this form to your EDR account executive:

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Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753

Inquiry Number: 5464929.3 October 25, 2018

Certified Sanborn® Map Report



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10/25/18 Site Name: Brett Hall AECOM 2522 SE Jesse Butler Cir 12120 Shamrock Plaza Powell Butte, OR 97753 Omaha, NE 68154 EDR Inquiry # 5464929.3 Contact: Brittany Kirchmann

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Project Brett Hall, OR

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Brett Hall

2522 SE Jesse Butler Cir Powell Butte, OR 97753

Inquiry Number: 5464929.5 October 26, 2018

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

Site Name:

Client Name:

10/26/18

Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753 EDR Inquiry # 5464929.5 AECOM 12120 Shamrock Plaza Omaha, NE 68154 Contact: Brittany Kirchmann



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:		
<u>Year</u>	<u>Scale</u>	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: May 08, 1994	USGS/DOQQ
1982	1"=500'	Flight Date: July 22, 1982	USDA
1980	1"=500'	Flight Date: August 02, 1980	USGS
1953	1"=500'	Flight Date: September 24, 1953	USGS
1951	1"=500'	Flight Date: July 28, 1951	USDA
1943	1"=500'	Flight Date: August 20, 1943	USDA
1938	1"=500'	Flight Date: June 05, 1938	USDA

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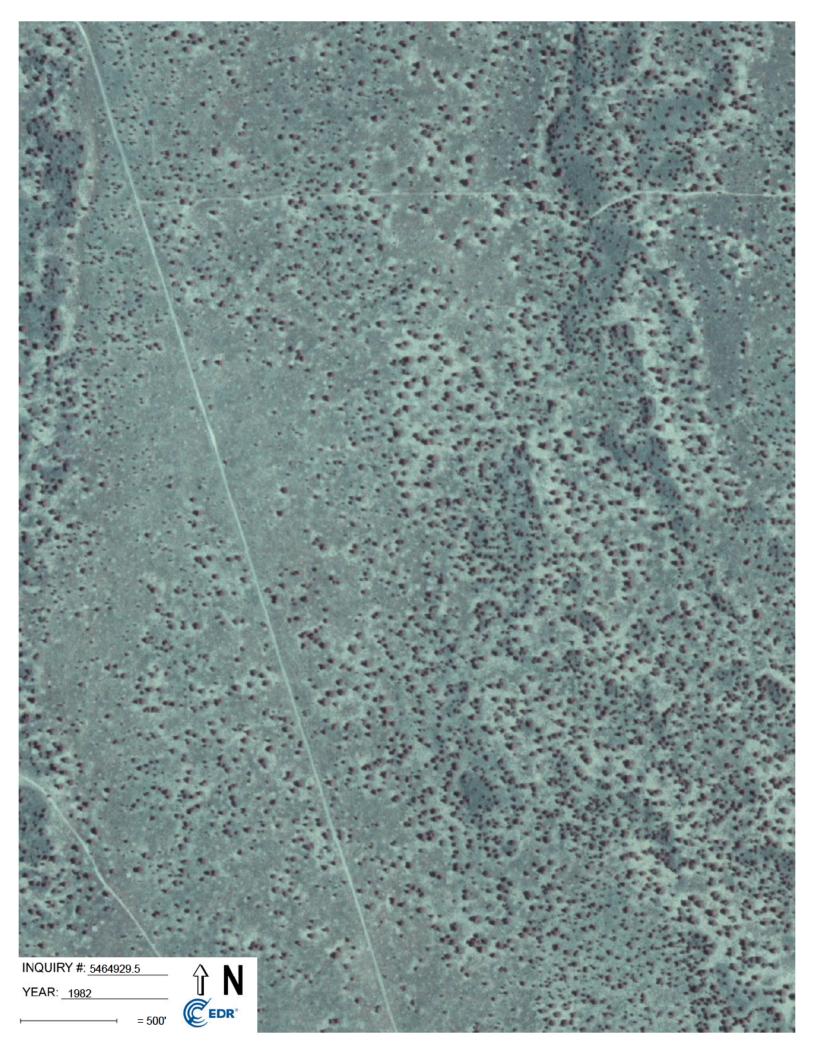


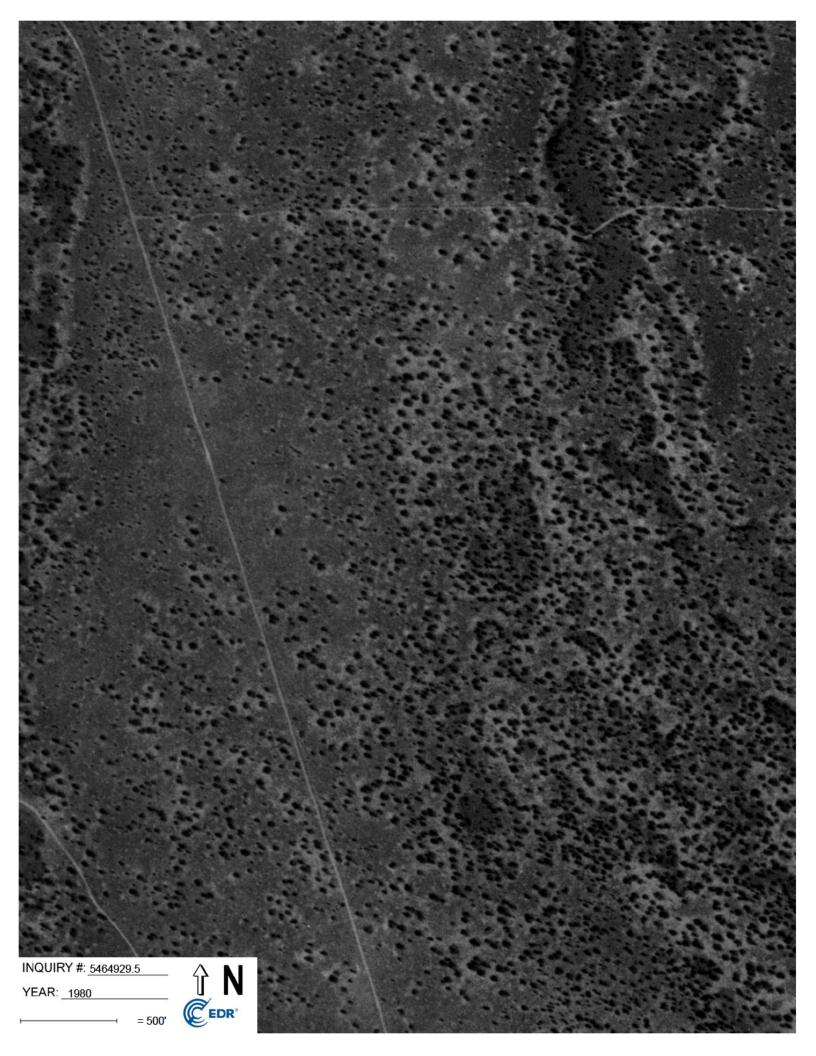


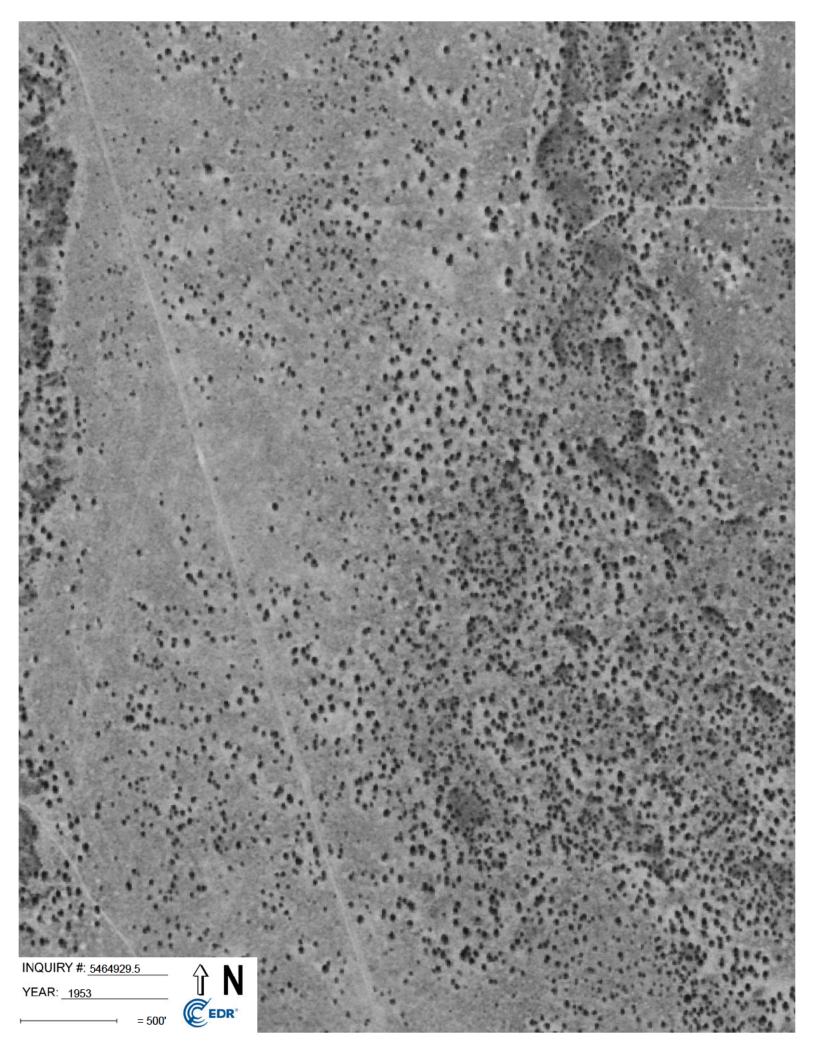


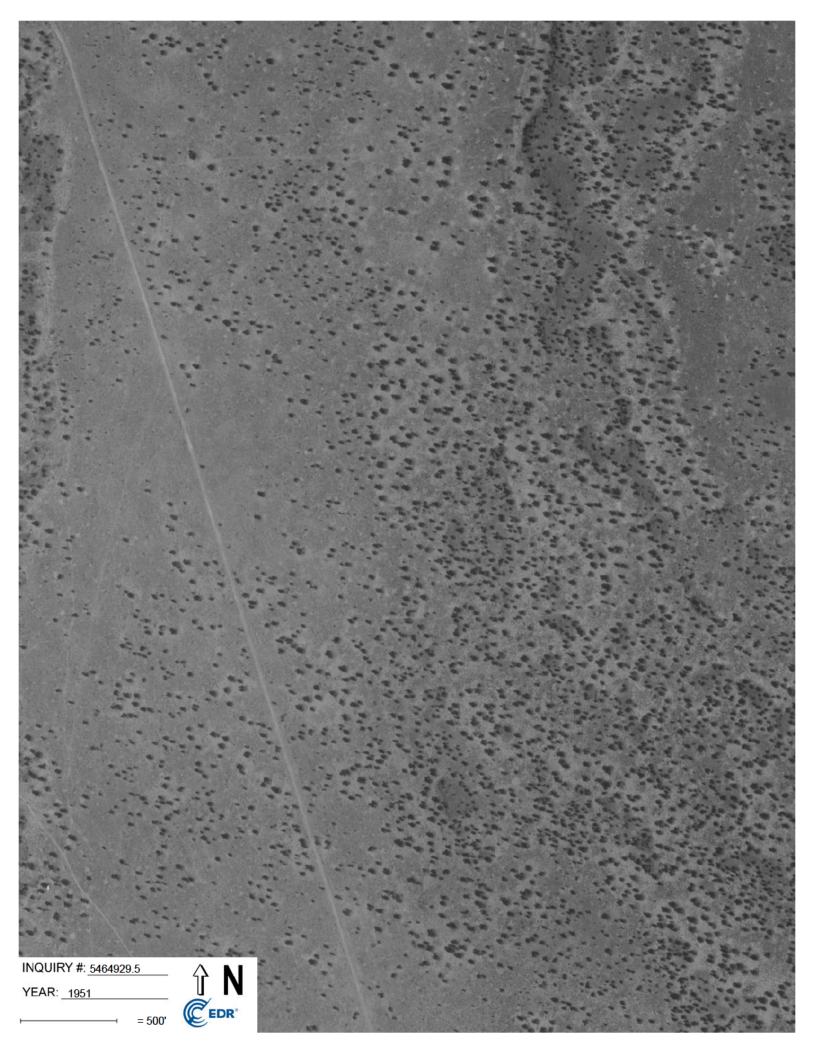


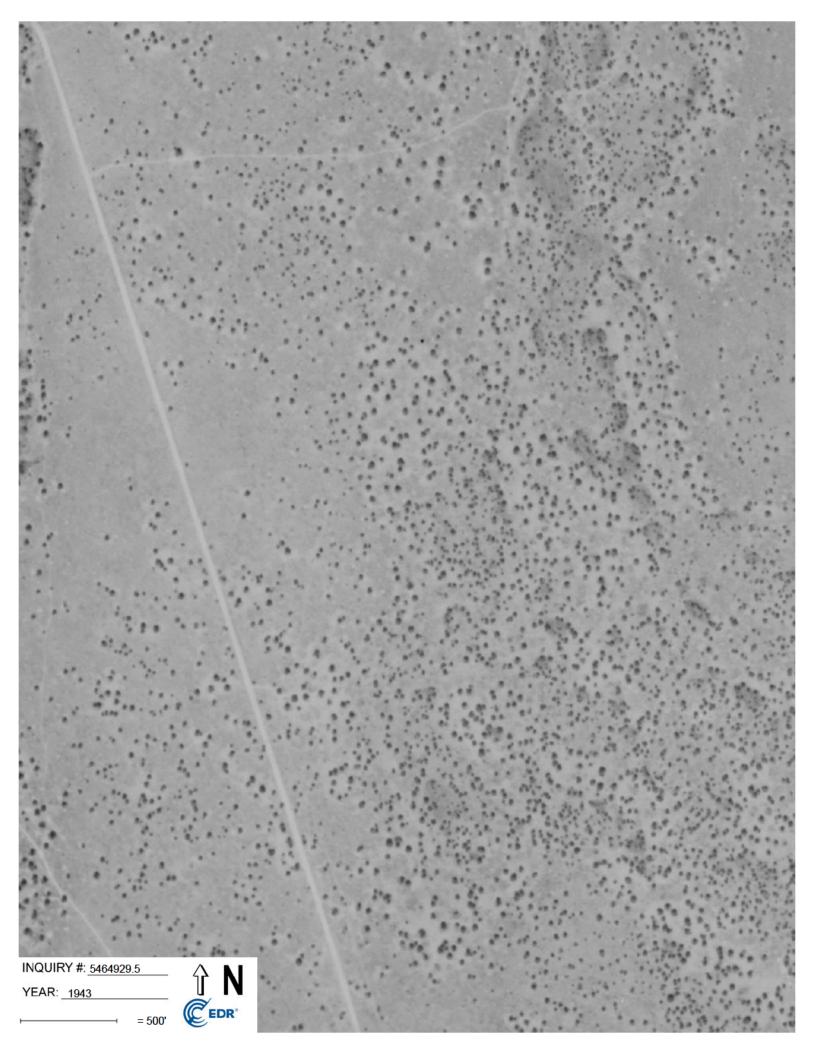


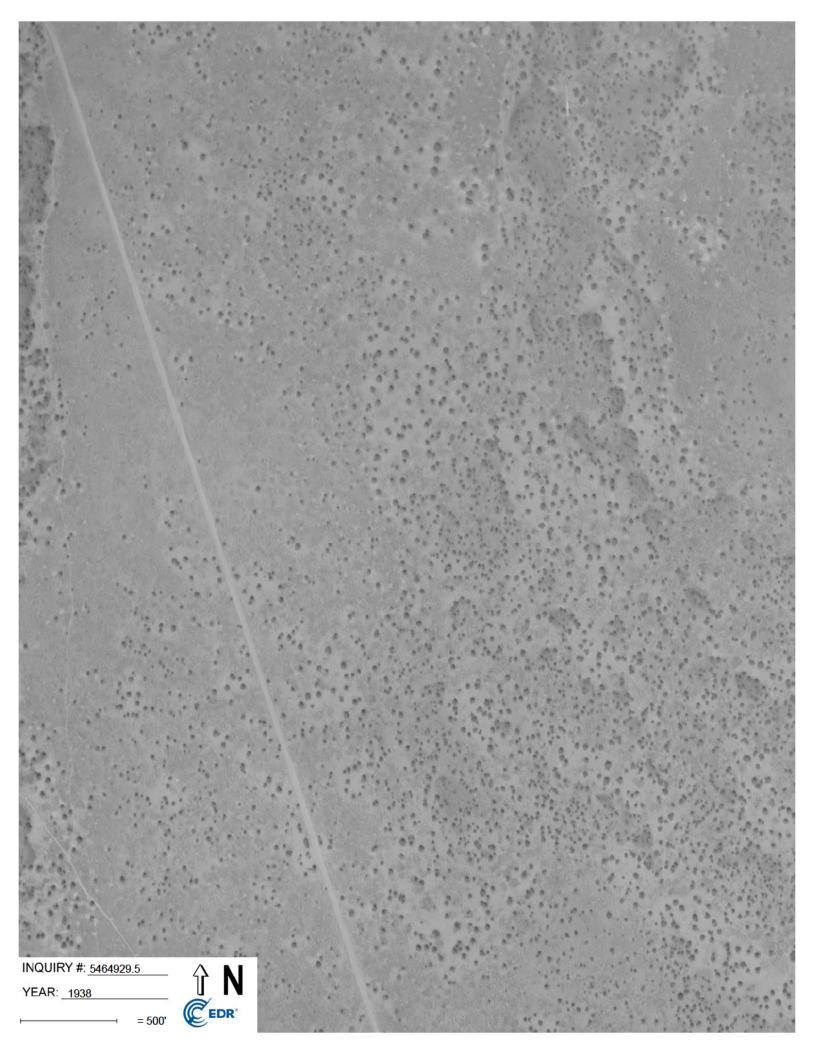












Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753

Inquiry Number: 5464929.2s October 25, 2018

The EDR Radius Map[™] Report with GeoCheck®



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

FORM-LBD-SPM

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	PSGR-1

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

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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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

COORDINATES

Latitude (North):	44.2223200 - 44° 13' 20.35''	
Longitude (West):	121.1008260 - 121° 6' 2.97"	
Universal Tranverse Mercator:	Zone 10	
UTM X (Meters):	651700.1	
UTM Y (Meters):	4898103.5	
Elevation:	3097 ft. above sea level	

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Version Date: 6067496 POWELL BUTTE, OR 2014

Southwest Map: Version Date:

6067448 FORKED HORN BUTTE, OR 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140605
Source:	USDA

DATABASE ACRONYMS

Target Property Address: 2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

Click on Map ID to see full detail.

SITE NAME

MAP ID

RELATIVEDIST (ft. & mi.)ELEVATIONDIRECTION

NO MAPPED SITES FOUND

ADDRESS

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

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL_____ National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY______ Federal Facility Site Information listing SEMS______ Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS	Land Use Control Information System
US ENG CONTROLS	Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

ECSI_____ Environmental Cleanup Site Information System CRL_____ Confirmed Release List and Inventory

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities List

State and tribal leaking storage tank lists

LUST	Leaking Underground S	Storage Tank Database
INDIAN LUST	Leaking Underground S	Storage Tanks on Indian Land

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

ENG CONTROLS...... Engineering Controls Recorded at ESCI Sites INST CONTROL...... Institutional Controls Recorded at ESCI Sites

State and tribal voluntary cleanup sites

INDIAN VCP...... Voluntary Cleanup Priority Listing VCP...... Voluntary Cleanup Program Sites

State and tribal Brownfields sites

BROWNFIELDS_____ Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF	Old Closed SW Disposal Sites
SWRCY	Recycling Facility Location Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
AOCONCERN	Columbia Slough
CDL	Uninhabitable Drug Lab Properties
US CDL	- National Clandestine Laboratory Register

Local Land Records

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	
OR HAZMAT	
SPILLS 90	. SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST 2020 COR ACTION	2020 Corrective Action Program List
	_ Toxic Substances Control Act _ 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
	PCB Activity Database System
	Integrated Compliance Information System
FIIS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
MITS	Act)/TSCA (Toxic Substances Control Act) Material Licensing Tracking System Steam-Electric Plant Operation Data
	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
	PCB Transformer Registration Database
	_ 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	
FUSRAP	Formerly Utilized Sites Remedial Action Program
	Uranium Mill Tailings Sites
LEAD SMELTERS	
US AIRSUS MINES	Aerometric Information Retrieval System Facility Subsystem
ABANDONED MINES	

ECHO	. Facility Index System/Facility Registry System
UXO	
DOCKET HWC	- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	- EPA Fuels Program Registered Listing
AIRS	Oregon Title V Facility Listing
COAL ASH	Coal Ash Disposal Sites Listing
DRYCLEANERS	
Enforcement	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HSIS	Hazardous Substance Information Survey
MANIFEST	_ Manifest Information
NPDES	. Wastewater Permits Database
UIC	Underground Injection Control Program Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
	_ 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

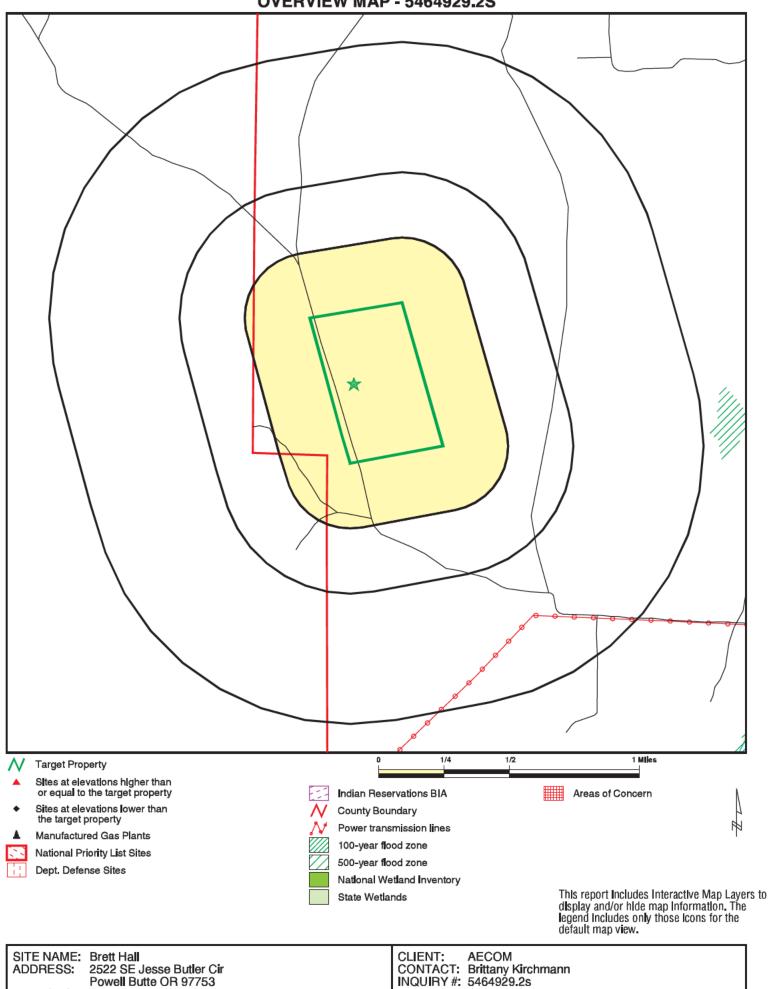
SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

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

There were no unmapped sites in this report.

OVERVIEW MAP - 5464929.2S

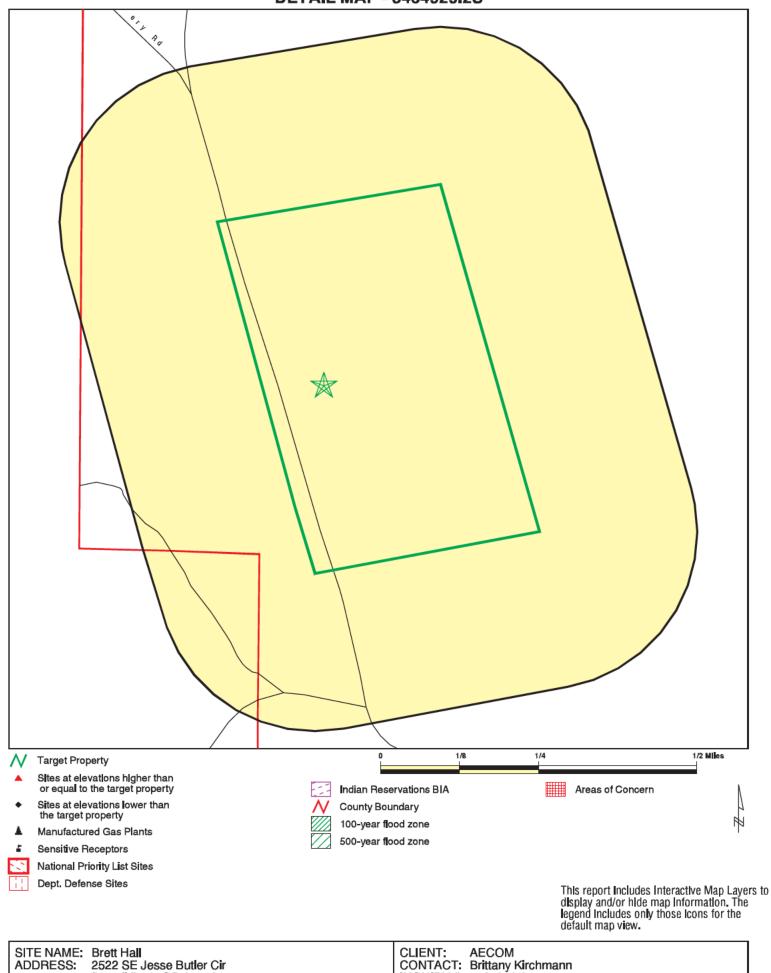


LAT/LONG:

44.22232 / 121.100826

DATE: October 25, 2018 11:41 am Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5464929.2S



Powell Butte OR 97753

44.22232 / 121.100826

LAT/LONG:

ЛП	11#.	340492	9.2	5				
E:		Octobe	r 25	, 201	8 11	:42	am	
	Consula	ht @ 2018 ED	D Inc	@ 2015	TomTom	Del	2015	

INQUIRY #: 5464929.2s

DAT

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS	;						
ECSI CRL	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank li	sts						
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal register	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal instituti control / engineering co		es						
ENG CONTROLS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal volunta	ry cleanup site	es						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfi	ields sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	S						
		_						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
HIST LF SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	is waste /							
US HIST CDL AOCONCERN CDL US CDL	TP 1.000 TP TP		NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency	Release Repo	orts						
HMIRS SPILLS OR HAZMAT SPILLS 90	TP TP TP TP		NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Other Ascertainable Re	cords							
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000		0 0 0	0 0 0	NR 0 0	NR 0 0	NR NR NR	0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	<u>> 1</u>	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.500 TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	Õ
TSCA	TP		NR	NR	NR	NR	NR	Õ
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS COAL ASH DOE	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	ŏ
DOT OPS	TP		NR	NR	NR	NR	NR	Õ
CONSENT	1.000		0	0	0	0	NR	Ō
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	TP		NR	NR	NR	NR	NR	0
USAIRS	TP		NR	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
FINDS	TP TP		NR	NR	NR	NR	NR	0
ECHO UXO	1.000		NR 0	NR 0	NR 0	NR 0	NR NR	0 0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NŘ	NR	NR	NR	õ
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Enforcement	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSIS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	AL 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

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR RECOVERED GOVE	ERNMENT ARCHI	/ES						
Exclusive Recovered	Govt. Archives							
RGA HWS RGA LF RGA LUST	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
- Totals		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Database(s) E

EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)

NO SITES FOUND

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

Federal NPL site list

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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018 Number of Days to Update: 29 Source: EPA Telephone: N/A Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/14/2019 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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018 Number of Days to Update: 29 Source: EPA Telephone: N/A Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/14/2019 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

Federal Delisted NPL site list

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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018 Number of Days to Update: 29 Source: EPA Telephone: N/A Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

Federal CERCLIS list

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: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 92 Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 07/06/2018 Next Scheduled EDR Contact: 10/15/2018 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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018 Number of Days to Update: 29 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 09/07/2018 Number of Days to Update: 29 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

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: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: (206) 553-1200 Last EDR Contact: 09/19/2018 Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

Federal RCRA generators list

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: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: (206) 553-1200 Last EDR Contact: 09/19/2018 Next Scheduled EDR Contact: 01/07/2019 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: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: (206) 553-1200 Last EDR Contact: 09/19/2018 Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018Source: Environmental Protection AgencyDate Data Arrived at EDR: 03/28/2018Telephone: (206) 553-1200Date Made Active in Reports: 06/22/2018Last EDR Contact: 09/19/2018Number of Days to Update: 86Next Scheduled EDR Contact: 01/07/2019Data 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: 05/14/2018	Source: Department of the Navy
Date Data Arrived at EDR: 05/18/2018	Telephone: 843-820-7326
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/16/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/26/2018
	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: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 17 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 08/28/2018 Next Scheduled EDR Contact: 12/10/2018 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: 06/18/2018 Date Data Arrived at EDR: 06/27/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 79 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 09/25/2018 Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

CRL: Confirmed Release List and Inventory All facilities with a confirmed release.

> Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 45

Source: Department of Environmental Quality Telephone: 503-229-6170 Last EDR Contact: 08/10/2018 Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly

ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 10/03/2018
Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities List

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: 07/16/2018 Date Data Arrived at EDR: 07/20/2018 Date Made Active in Reports: 08/20/2018 Number of Days to Update: 31 Source: Department of Environmental Quality Telephone: 503-229-6299 Last EDR Contact: 10/15/2018 Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

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: 07/02/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 45 Source: Department of Environmental Quality Telephone: 503-229-5790 Last EDR Contact: 08/10/2018 Next Scheduled EDR Contact: 11/26/2018 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: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R9: Leaking Underground Storage LUSTs on Indian land in Arizona, California, N	
Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R8: Leaking Underground Storage LUSTs on Indian land in Colorado, Montana,	Tanks on Indian Land North Dakota, South Dakota, Utah and Wyoming.
Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R4: Leaking Underground Storage LUSTs on Indian land in Florida, Mississippi a	
Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R1: Leaking Underground Storage A listing of leaking underground storage tank	
Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN LUST R5: Leaking Underground Storage Leaking underground storage tanks located o	Tanks on Indian Land n Indian Land in Michigan, Minnesota and Wisconsin.
Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies

Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage T LUSTs on Indian land in Iowa, Kansas, and Ne	
Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
State and tribal registered storage tank lists	
FEMA UST: Underground Storage Tank Listing A listing of all FEMA owned underground store	age tanks.
Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 136	Source: FEMA Telephone: 202-646-5797 Last EDR Contact: 10/10/2018 Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Varies
	's are regulated under Subtitle I of the Resource Conservation and Recovery tate department responsible for administering the UST program. Available
Date of Government Version: 07/02/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 45	Source: Department of Environmental Quality Telephone: 503-229-5815 Last EDR Contact: 08/10/2018 Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Quarterly
AST: Aboveground Storage Tanks Aboveground storage tank locations reported	to the Office of State Fire Marshal.
Date of Government Version: 09/05/2017 Date Data Arrived at EDR: 11/16/2017 Date Made Active in Reports: 01/09/2018 Number of Days to Update: 54	Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 08/01/2018 Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Semi-Annually
a b c c ,	ndian Land database provides information about underground storage tanks on Indian rgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63	Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 Data Release Frequency: Varies
INDIAN UST R6: Underground Storage Tanks on Ir The Indian Underground Storage Tank (UST)	ndian Land database provides information about underground storage tanks on Indian

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: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 04/10/2018	
Date Data Arrived at EDR: 05/18/2018	
Date Made Active in Reports: 07/20/2018	
Number of Days to Update: 63	

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 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: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	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: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63 Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 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: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018 Number of Days to Update: 63 Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 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: 04/13/2018Source: EPA, Region 1Date Data Arrived at EDR: 05/18/2018Telephone: 617-918-13Date Made Active in Reports: 07/20/2018Last EDR Contact: 07/2Number of Days to Update: 63Next Scheduled EDR C

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 07/27/2018 Next Scheduled EDR Contact: 11/05/2018 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: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 10/01/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/03/2018	Telephone: 503-229-5193
Date Made Active in Reports: 10/23/2018	Last EDR Contact: 10/03/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 10/01/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/03/2018	Telephone: 503-229-5193
Date Made Active in Reports: 10/23/2018	Last EDR Contact: 10/03/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCS: Voluntary Cleanup Program Sites

Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 06/29/2018 Date Data Arrived at EDR: 07/03/2018 Date Made Active in Reports: 07/23/2018 Number of Days to Update: 20 Source: DEQ Telephone: 503-229-5256 Last EDR Contact: 10/19/2018 Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/24/2018
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/07/2019
	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	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 45 Source: Department of Environmental Quality Telephone: 503-229-6801 Last EDR Contact: 08/10/2018 Next Scheduled EDR Contact: 11/26/2018 Data Release Frequency: Annually

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: 06/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 09/18/2018 Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF:	Old	Closed SW	Disposal Sites	
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A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/2000 Date Data Arrived at EDR: 07/08/2003 Date Made Active in Reports: 07/18/2003 Number of Days to Update: 10 Source: Department of Environmental Quality Telephone: 503-229-5409 Last EDR Contact: 07/08/2003 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

SWRCY: Recycling Facility Location Listing A listing of recycling facility locations.

> Date of Government Version: 08/28/2018 Date Data Arrived at EDR: 08/29/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 26

Source: Department of Environmental Quality Telephone: 503-229-5353 Last EDR Contact: 08/29/2018 Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Quarterly

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: 07/30/2018 Next Scheduled EDR Contact: 11/12/2018 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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 10/22/2018
Number of Days to Update: 137	Next Scheduled EDR Contact: 02/04/2019
	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: 04/01/2014Source: Department of Health & Human Serivces, Indian Health ServiceDate Data Arrived at EDR: 08/06/2014Telephone: 301-443-1452Date Made Active in Reports: 01/29/2015Last EDR Contact: 08/03/2018Number of Days to Update: 176Next Scheduled EDR Contact: 11/12/2018Data Release Frequency: Varies

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: 05/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 86	Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 08/28/2018 Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: No Update Planned
AOC COL: Columbia Slough Columbia Slough waterway boundaries.	
Date of Government Version: 08/10/2005 Date Data Arrived at EDR: 05/17/2006 Date Made Active in Reports: 06/16/2006 Number of Days to Update: 30	Source: City of Portland Environmental Services Telephone: 503-823-5310 Last EDR Contact: 03/13/2007 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
AOC MU: East Multnomah County Area Approximate extent of TSA VOC plume Febru	uary , 2002
Date of Government Version: N/A Date Data Arrived at EDR: 10/07/2002 Date Made Active in Reports: 10/22/2002 Number of Days to Update: 15	Source: City of Portland Environmental Services Telephone: 503-823-5310 Last EDR Contact: 03/13/2007 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
CDL 2: Clandestine Drug Lab Site Listing A listing of clandestine drug lab site locations	included in the Incident database.
Date of Government Version: 07/01/2018 Date Data Arrived at EDR: 08/01/2018 Date Made Active in Reports: 08/15/2018	Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 08/01/2018

CDL: Uninhabitable Drug Lab Properties

Number of Days to Update: 14

The properties listed on these county pages have been declared by a law enforcement agency to be unfit for use due to meth lab and/or storage activities. The properties are considered uninhabitable until cleaned up by a state certified decontamination contractor and a certificate of fitness is issued by the Oregon Health Division.

Next Scheduled EDR Contact: 11/12/2018

Data Release Frequency: Varies

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 10/22/2018 Number of Days to Update: 27 Source: Department of Consumer & Business Services Telephone: 503-378-4133 Last EDR Contact: 08/01/2018 Next Scheduled EDR Contact: 11/19/2018 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: 05/18/2018 Date Data Arrived at EDR: 06/20/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 86 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 08/28/2018 Next Scheduled EDR Contact: 12/10/2018 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: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/14/2019 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: 03/26/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/27/2018	Telephone: 202-366-4555
Date Made Active in Reports: 06/08/2018	Last EDR Contact: 09/25/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

SPILLS: Spill Data

Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 10/01/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/02/2018	Telephone: 503-229-5815
Date Made Active in Reports: 10/23/2018	Last EDR Contact: 10/01/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents

Hazardous material incidents reported to the State Fire Marshal by emergency responders. The hazardous material may or may not have been released.

Date of Government Version: 07/01/2018	Source: State Fire Marshal's Office
Date Data Arrived at EDR: 08/01/2018	Telephone: 503-373-1540
Date Made Active in Reports: 08/15/2018	Last EDR Contact: 08/01/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/12/2018
	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: 05/01/2006Source: FirstSearchDate Data Arrived at EDR: 01/03/2013Telephone: N/ADate Made Active in Reports: 02/22/2013Last EDR Contact: 01/03/2013Number of Days to Update: 50Next Scheduled EDR Contact: N/AData 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: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018 Number of Days to Update: 86 Source: Environmental Protection Agency Telephone: (206) 553-1200 Last EDR Contact: 09/19/2018 Next Scheduled EDR Contact: 01/07/2019 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: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015 Number of Days to Update: 97 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 08/24/2018 Next Scheduled EDR Contact: 12/03/2018 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: 12/31/2005	
Date Data Arrived at EDR: 11/10/2006	
Date Made Active in Reports: 01/11/2007	
Number of Days to Update: 62	

Source: USGS Telephone: 888-275-8747 Last EDR Contact: 10/12/2018 Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

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: 12/31/2005	
Date Data Arrived at EDR: 02/06/2006	
Date Made Active in Reports: 01/11/2007	
Number of Days to Update: 339	

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/12/2018 Next Scheduled EDR Contact: 01/21/2019 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: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017 Number of Days to Update: 63 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 08/17/2018 Next Scheduled EDR Contact: 11/26/2018 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: 05/31/2018 Date Data Arrived at EDR: 06/27/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 100 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 09/25/2018 Next Scheduled EDR Contact: 01/07/2019 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: 08/03/2018 Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly

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: 08/10/2018 Next Scheduled EDR Contact: 11/19/2018 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: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018 Number of Days to Update: 198 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 09/21/2018 Next Scheduled EDR Contact: 12/31/2018 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: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018 Number of Days to Update: 2 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 08/24/2018 Next Scheduled EDR Contact: 12/03/2018 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: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011 Number of Days to Update: 77 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 10/24/2018 Next Scheduled EDR Contact: 02/04/2019 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: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: 703-416-0223
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 10/04/2018
Number of Days to Update: 57	Next Scheduled EDR Contact: 12/17/2018
	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: 08/01/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 44 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 10/23/2018 Next Scheduled EDR Contact: 02/04/2019 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 Pa	rties
Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014 Number of Days to Update: 3	Source: EPA Telephone: 202-564-6023 Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Quarterly
PADS: PCB Activity Database System PCB Activity Database. PADS Identifies generation of PCB's who are required to notify the EPA o	rators, transporters, commercial storers and/or brokers and disposers f such activities.
Date of Government Version: 06/01/2017 Date Data Arrived at EDR: 06/09/2017 Date Made Active in Reports: 10/13/2017 Number of Days to Update: 126	Source: EPA Telephone: 202-566-0500 Last EDR Contact: 10/11/2018 Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Annually
	m (ICIS) supports the information needs of the national enforcement e needs of the National Pollutant Discharge Elimination System (NPDES)
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: 10/09/2018 Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Quarterly
FTTS tracks administrative cases and pesticic	deral Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) le enforcement actions and compliance activities related to FIFRA, Community Right-to-Know Act). To maintain currency, EDR contacts the
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: Quarterly
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: Quarterly
	y Commission and contains a list of approximately 8,100 sites which th are subject to NRC licensing requirements. To maintain currency, s.
Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016 Number of Days to Update: 43	Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 09/28/2018 Next Scheduled EDR Contact: 11/05/2018 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: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/07/2018
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/17/2018
	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: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/04/2018
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/17/2018
	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: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 07/27/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/05/2018
	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: 07/02/2018 Date Data Arrived at EDR: 07/05/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 202-343-9775 Last EDR Contact: 10/03/2018 Next Scheduled EDR Contact: 01/14/2019 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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 Pipeli	ine Safety Incident and Accident data.	
Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012 Number of Days to Update: 42	Source: Department of Transporation, Office of Pipeline Safety Telephone: 202-366-4595 Last EDR Contact: 08/09/2018 Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Varies	
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: 06/30/2018 Date Data Arrived at EDR: 07/17/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 80	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 10/01/2018 Next Scheduled EDR Contact: 12/31/2018 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: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017 Number of Days to Update: 218	Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 08/24/2018 Next Scheduled EDR Contact: 12/03/2018 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: 10/09/2018 Next Scheduled EDR Contact: 01/21/2019 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: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 3	Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 09/11/2018 Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies	
UMTRA: Uranium Mill Tailings Sites	s for federal government use in national defense programs. When the mills	

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: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017 Number of Days to Update: 23	Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 08/20/2018 Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Varies
LEAD SMELTER 1: Lead Smelter Sites A listing of former lead smelter site locations.	
Date of Government Version: 07/17/2018 Date Data Arrived at EDR: 08/09/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 57	Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 10/04/2018 Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Varies
	re secondary lead smelting was done from 1931and 1964. These sites gestion 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
on air pollution point sources regulated by the information comes from source reports by var steel mills, factories, and universities, and pro	System Facility Subsystem (AFS) nformation Retrieval System (AIRS). AFS contains compliance data U.S. EPA and/or state and local air regulatory agencies. This ious stationary sources of air pollution, such as electric power plants, vides information about the air pollutants they produce. Action, al level plant data. It is used to track emissions and compliance
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
US MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/29/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 37	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 08/29/2018 Next Scheduled EDR Contact: 12/10/2018 Data Release Frequency: Semi-Annually
	s Database Listing I 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: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49

Source: USGS Telephone: 703-648-7709 Last EDR Contact: 08/31/2018 Next Scheduled EDR Contact: 12/10/2018 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: 08/31/2018 Next Scheduled EDR Contact: 12/10/2018 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: 09/10/2018 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 3

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 09/10/2018 Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Quarterly

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: 08/07/2018	Source: EPA
Date Data Arrived at EDR: 09/05/2018	Telephone: (206) 553-1200
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 09/18/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017	Source: Department of Defense
Date Data Arrived at EDR: 06/19/2018	Telephone: 703-704-1564
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 10/15/2018
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/28/2019
	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: 05/31/2018	Source: Environme
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-50
Date Made Active in Reports: 10/05/2018	Last EDR Contact:
Number of Days to Update: 71	Next Scheduled E
	Data Data a Cara

nental Protection Agency 564-0527 t: 08/31/2018 DR Contact: 12/10/2018 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information	ation
ECHO provides integrated compliance and er	nforcement information for about 800,000 regulated facilities nationwide.
Date of Government Version: 09/02/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 09/14/2018 Number of Days to Update: 9	Source: Environmental Protection Agency Telephone: 202-564-2280 Last EDR Contact: 09/05/2018 Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Quarterly
FUELS PROGRAM: EPA Fuels Program Register This listing includes facilities that are register Programs. All companies now are required to	ed under the Part 80 (Code of Federal Regulations) EPA Fuels
Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018 Number of Days to Update: 44	Source: EPA Telephone: 800-385-6164 Last EDR Contact: 08/22/2018 Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Quarterly
AIRS: Oregon Title V Facility Listing A listing of Title V facility source and emissior	ns information.
Date of Government Version: 07/03/2018 Date Data Arrived at EDR: 07/10/2018 Date Made Active in Reports: 08/17/2018 Number of Days to Update: 38	Source: Department of Environmental Quality Telephone: 503-229-6459 Last EDR Contact: 10/01/2018 Next Scheduled EDR Contact: 04/17/2047 Data Release Frequency: Annually
COAL ASH: Coal Ash Disposal Sites Listing A listing of coal ash disposal sites.	
Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 03/16/2018 Date Made Active in Reports: 05/15/2018 Number of Days to Update: 60	Source: Department of Environmental Quality Telephone: 541-298-7255 Last EDR Contact: 08/30/2018 Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Varies
DRYCLEANERS: Drycleaning Facilities A listing of registered drycleaning facilities in the	Oregon.
Date of Government Version: 07/27/2018 Date Data Arrived at EDR: 07/31/2018 Date Made Active in Reports: 08/15/2018 Number of Days to Update: 15	Source: Department of Environmental Quality Telephone: 503-229-6783 Last EDR Contact: 07/25/2018 Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Annually
ENF: Enforcement Action Listing Enforcement actions	
Date of Government Version: 09/18/2018 Date Data Arrived at EDR: 09/19/2018 Date Made Active in Reports: 10/23/2018 Number of Days to Update: 34	Source: Department of Environmental Quality Telephone: 503-229-5696 Last EDR Contact: 09/19/2018 Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Quarterly
Financial Assurance 1: Financial Assurance Inform Financial assurance information for hazardou	0
Date of Government Version: 05/21/2018 Date Data Arrived at EDR: 06/21/2018 Date Made Active in Reports: 07/23/2018 Number of Days to Update: 32	Source: Department of Environmental Quality Telephone: 541-633-2011 Last EDR Contact: 08/30/2018 Next Scheduled EDR Contact: 12/17/2018 Data Release Frequency: Semi-Annually

	te facilities. Financial assurance is intended to ensure that resources ost-closure care, and corrective measures if the owner or operator
Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 08/21/2018 Date Made Active in Reports: 09/24/2018 Number of Days to Update: 34	Source: Department of Environmental Quality Telephone: 503-229-5521 Last EDR Contact: 08/20/2018 Next Scheduled EDR Contact: 12/03/2018 Data Release Frequency: Semi-Annually
HSIS: Hazardous Substance Information Survey Companies in Oregon submitting the Hazardo hazardous substances.	ous Substance Information Survey and either reporting or not reporting
Date of Government Version: 05/03/2018 Date Data Arrived at EDR: 05/03/2018 Date Made Active in Reports: 06/07/2018 Number of Days to Update: 35	Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 08/01/2018 Next Scheduled EDR Contact: 11/12/2018 Data Release Frequency: Semi-Annually
OR MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 08/06/2018 Date Made Active in Reports: 08/15/2018 Number of Days to Update: 9	Source: Department of Environmental Quality Telephone: N/A Last EDR Contact: 08/01/2018 Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Annually
NPDES: Wastewater Permits Database A listing of permitted wastewater facilities.	
Date of Government Version: 09/20/2018 Date Data Arrived at EDR: 09/20/2018 Date Made Active in Reports: 10/22/2018 Number of Days to Update: 32	Source: Department of Environmental Quality Telephone: 503-229-5657 Last EDR Contact: 08/01/2018 Next Scheduled EDR Contact: 11/19/2018 Data Release Frequency: Varies
LIC: Underground Injection Control Program Date	hana

UIC: Underground Injection Control Program Database DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 09/25/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 10/23/2018 Number of Days to Update: 26 Source: Department of Environmental Quality Telephone: 503-229-5945 Last EDR Contact: 09/25/2018 Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

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 Environmental Quality in Oregon.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/03/2014 Number of Days to Update: 186 Source: Department of Environmental Quality 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 Environmental Quality in Oregon.

Date of Government Version: N/A	Source: Department of Environmental Quality
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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 Environmental Quality in Oregon.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 12/27/2013 Number of Days to Update: 179 Source: Department of Environmental Quality Telephone: N/A Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

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.

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: 07/01/2018	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/01/2018	Telephone: 518-402-8651
Date Made Active in Reports: 08/31/2018	Last EDR Contact: 08/01/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/12/2018
	Data Release Frequency: Quarterly
/I MANIFEST: Manifest Information	

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 06/15/2018 Date Made Active in Reports: 07/09/2018 Number of Days to Update: 24 Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 09/06/2018 Next Scheduled EDR Contact: 12/24/2018 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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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: Child Care Listings Source: Employment Department Telephone: 503-947-1420 Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data Source: Oregon Geospatial Enterprise Office Telephone: 503-378-2166

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

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BRETT HALL 2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

TARGET PROPERTY COORDINATES

Latitude (North):	44.22232 - 44° 13' 20.35"
Longitude (West):	121.100826 - 121° 6' 2.97"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	651700.1
UTM Y (Meters):	4898103.5
Elevation:	3097 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6067496 POWELL BUTTE, OR
Version Date:	2014
Southwest Map: Version Date:	6067448 FORKED HORN BUTTE, OR 2014

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:

- Groundwater flow direction, and
 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.

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).

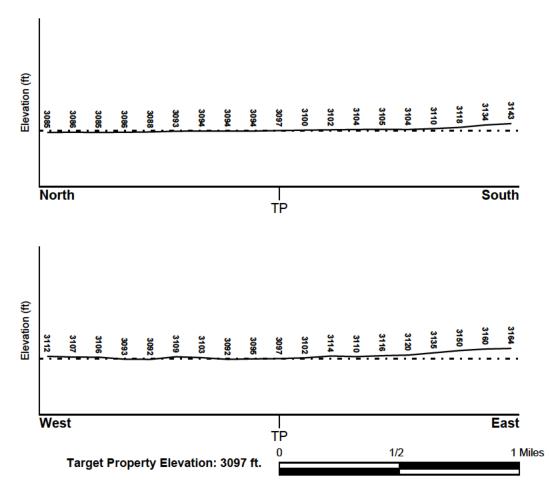
TOPOGRAPHIC INFORMATION

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 WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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.

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
41017C0525E	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
Not Reported	
NATIONAL WETLAND INVENTORY	

	NWI Electronic
NWI Quad at Target Property	Data Coverage
POWELL BUTTE	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.

AQUIFLOW®

Search Radius: 1.000 Mile.

MAP ID

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.

Not Reported

LOCATION

FROM TP

GENERAL DIRECTION GROUNDWATER FLOW

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

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic Cat	egory:	Volcanic Rocks
System:	Quaternary		
Series:	Quaternary volcanic rocks		
Code:	Qv (decoded above as Era, System & Series)		

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	DESCHUTES	
Soil Surface Texture:	sandy loam	
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.	
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.	
Hydric Status: Soil does not meet the requirements for a hydric soil.		
Corrosion Potential - Uncoated Steel:	MODERATE	

Depth to Bedrock Min:	> 20 inches
-----------------------	-------------

Depth to Bedrock Max: > 40 inches

Soil Layer Information							
Layer	Boundary			Classification			
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
2	7 inches	17 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
3	17 inches	31 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 7.40
4	31 inches	35 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	unweathered bedrock stony - sandy loam
Surficial Soil Types:	unweathered bedrock stony - sandy loam
Shallow Soil Types:	clay loam gravelly - sandy loam
Deeper Soil Types:	fine sandy loam very gravelly - sand

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 Federal FRDS PWS	1.000 Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
A2	USGS40000989428	1/8 - 1/4 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

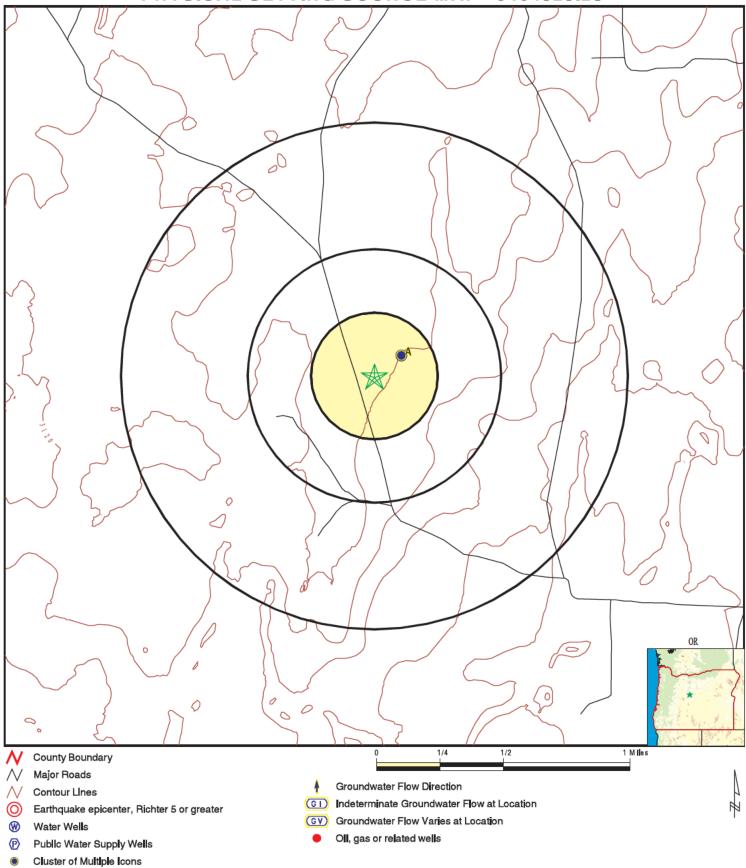
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
A1	ORW60000009437	1/8 - 1/4 Mile NE

PHYSICAL SETTING SOURCE MAP - 5464929.2s



	2522 SE Jesse Butler Cir Powell Butte OR 97753	INQUIRY #:	AECOM Brittany Kirchmann 5464929.2s October 25, 2018 11:42 am
		Copyrig	nt © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation				Database	EDR ID Number
A1 NE 1/8 - 1/4 Mile Higher				OR WELLS	ORW60000009437
Well Log ID: Well Tag: Observation Well: Obs Well Flag:	CROO 1852 0 Not Reported Not Reported		Last Update: State Obs Well #: Recorder Well: Surface Elevation:	01/06/2008 0 Not Report 3095	
A2 NE 1/8 - 1/4 Mile Higher				FED USGS	USGS40000989428
Organization ID: Monitor Location: Description: Drainage Area: Contrib Drainage Area: Aquifer: Aquifer Type: Well Depth: Well Hole Depth:	USGS-OR 15S/14E-31CAD Not Reported Not Reported Not Reported Not Reported 492 492		Organization Name: Type: HUC: Drainage Area Units: Contrib Drainage Area U Formation Type: Construction Date: Well Depth Units: Well Hole Depth Units:	Well 1707 Not F Jnts: Not F Not F	S Oregon Water Science Center 0305 Reported Reported Reported 0102
Ground water levels,Nun Feet below surface: Note:	nber of Measurements: 370.00 Not Reported	1	Level reading date: Feet to sea level:		-01-02 Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CROOK County: 2

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

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data

Source: Oregon Geospatial Enterprise Office Telephone: 503-378-2166

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.

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 Well Data Source: Department of Water Resources Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Department of Geology and Mineral Industries Telephone: 971-673-1540 A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon Source: Oregon Health Services Telephone: 503-731-4272 Radon Levels in Orgeon

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.

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

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Brett Hall 2522 SE Jesse Butler Cir Powell Butte, OR 97753

Inquiry Number: 5464929.2s October 25, 2018

EDR Summary Radius Map Report



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

FORM-NULL-PVC

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GEOCHECK ADDENDUM

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

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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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

COORDINATES

Latitude (North):	44.2223200 - 44° 13' 20.35''
Longitude (West):	121.1008260 - 121° 6' 2.97''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	651700.1
UTM Y (Meters):	4898103.5
Elevation:	3097 ft. above sea level

TΡ

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: Source:

Target Property:

Source:

U.S. Geological Survey SW U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140605
Source:	USDA

DATABASE ACRONYMS

Target Property Address: 2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

Click on Map ID to see full detail.

SITE NAME

MAP ID

RELATIVEDIST (ft. & mi.)ELEVATIONDIRECTION

NO MAPPED SITES FOUND

ADDRESS

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

SURROUNDING SITES: SEARCH RESULTS

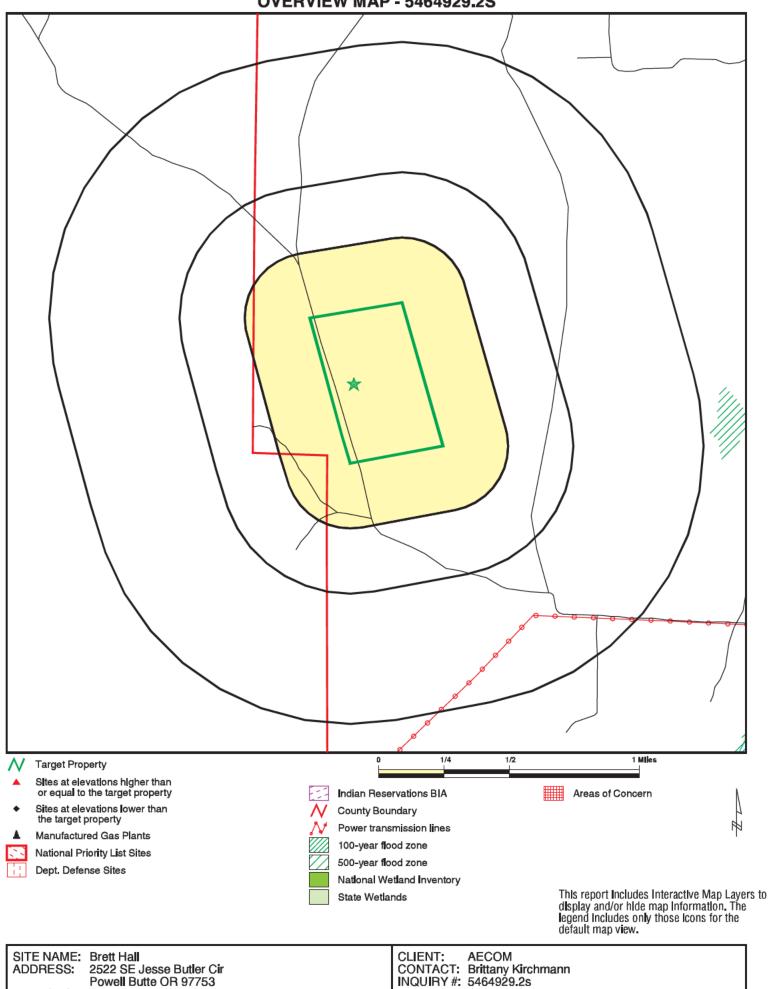
Surrounding sites were not identified.

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

	Zip Database(s)						
MMARY	Site Address						
ORPHAN SUMMARY	Site Name	NO SITES FOUND					
	EDR ID						
Count: 0 records.	City						

TC5464929.2s Page 9

OVERVIEW MAP - 5464929.2S

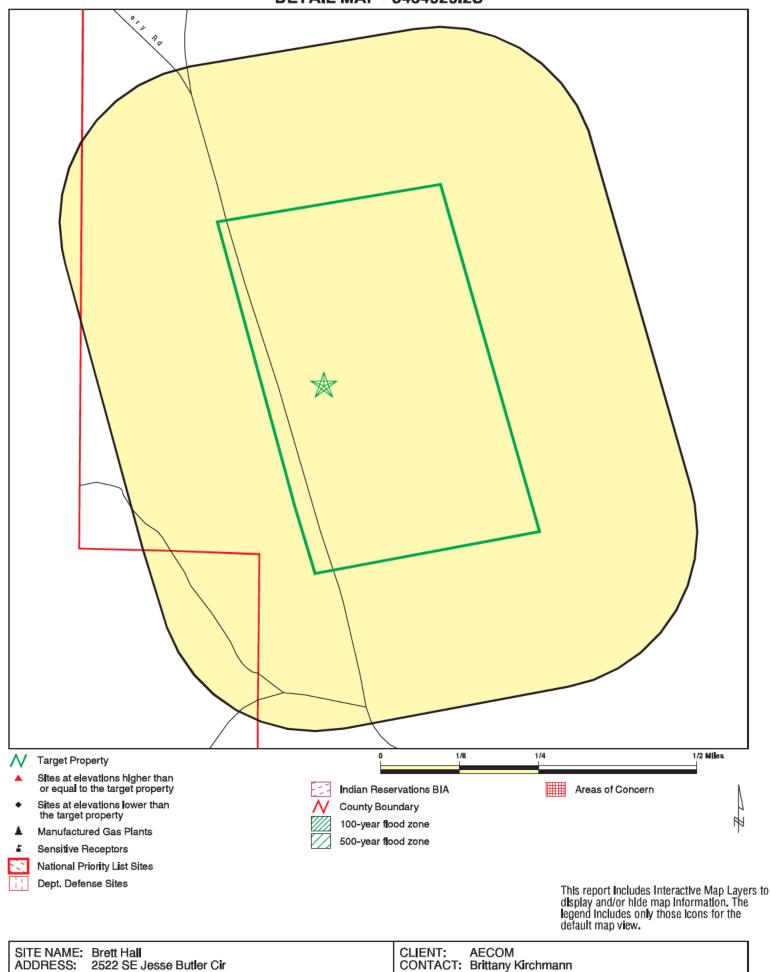


LAT/LONG:

44.22232 / 121.100826

DATE: October 25, 2018 11:41 am Copyright © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 5464929.2S



SITE NAME:	Brett Hall	CLIENT:	AECOM
ADDRESS:	2522 SE Jesse Butler Cir	CONTACT:	Brittany Kirchmann
	Powell Butte OR 97753	INQUIRY #:	5464929.2s
LAT/LONG:	44.22232 / 121.100826	DATE:	October 25, 2018 11:42 am
		Copyrig	nt © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMEN	TAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL si	te list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities lis	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	rs list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional cor engineering controls re								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiva	alent CERCLIS	;						
ECSI CRL	1.000 1.000		0 0	0 0	0 0	0 0	NR NR	0 0
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank li	sts						
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal register	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
State and tribal instituti control / engineering co		es						
ENG CONTROLS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal volunta	ry cleanup site	es						
INDIAN VCP VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfi	ields sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	NTAL RECORD	S						
		_						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	Solid							
HIST LF SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardou Contaminated Sites	is waste /							
US HIST CDL AOCONCERN CDL US CDL	TP 1.000 TP TP		NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR 0 NR NR	NR NR NR NR	0 0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency	Release Repo	orts						
HMIRS SPILLS OR HAZMAT SPILLS 90	TP TP TP TP		NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
Other Ascertainable Re	cords							
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000		0 0 0	0 0 0	NR 0 0	NR 0 0	NR NR NR	0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	<u>> 1</u>	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.500 TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	Õ
TSCA	TP		NR	NR	NR	NR	NR	Õ
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS COAL ASH DOE	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	ŏ
DOT OPS	TP		NR	NR	NR	NR	NR	Õ
CONSENT	1.000		0	0	0	0	NR	Ō
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	TP		NR	NR	NR	NR	NR	0
USAIRS	TP		NR	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
FINDS	TP TP		NR	NR	NR	NR	NR	0
ECHO UXO	1.000		NR 0	NR 0	NR 0	NR 0	NR NR	0 0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NŘ	NR	NR	NR	õ
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Enforcement	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSIS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	AL 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

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR RECOVERED GOVE	ERNMENT ARCHI	/ES						
Exclusive Recovered	Govt. Archives							
RGA HWS RGA LF RGA LUST	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
- Totals		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Database(s) E

EDR ID Number EPA ID Number

NO SITES FOUND

OR AIRS ¹ Oregon Tile V Facility Listing Department of Environmental Quality 07/10/2018 08/11/2018 RA ACC COL Columbia Situph City of Portiand Environmental Services 1007/2002 08/11/2018 RA Aboveground Storage Fanks Office of State Fine Marshal 08/01/2018 08/02/2018	St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
OR ACC MU East Multinoma City of Portland Environmental Services 107/2002 007/2002	OR	AIRS	Oregon Title V Facility Listing	Department of Environmental Quality	07/03/2018	07/10/2018	08/17/2018
OR AST Aboveground Storage Tanks Office of State Fire Marshal 9005(2017 11/16/2017 01/06/2016 DR BROWNFIELDS Brownfields Projects Department of Consumer & Business Services 9021/2018 0922/2018 0922/2018 0922/2018 0922/2018 0922/2018 0922/2018 0922/2018 0922/2018 0921/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0801/2018 0812/2018 <	OR	AOC COL	Columbia Slough	City of Portland Environmental Services	08/10/2005	05/17/2006	06/16/2006
OR BrownFields Projectia Department of Environmental Quality 08/01/2018 08/24/2018 09/24/2018 OR CDL Luninabilable Drug Lab Site Listing Oregon State Police 07/01/2018 08/01/2018 <	OR	AOC MU	East Multnomah County Area	City of Portland Environmental Services		10/07/2002	10/22/2002
OR CDL Uninhabitable Drug Lab Properties Operatment of Consumer & Business Services Op/21/2018 Ob/22/2018	OR	AST	Aboveground Storage Tanks	Office of State Fire Marshal	09/05/2017	11/16/2017	01/09/2018
OR CDL 2 Clandestine Drug Lab Site Listing Oregon State Police 07/01/2018 08/01/2018	OR	BROWNFIELDS	Brownfields Projects	Department of Environmental Quality	08/01/2018	08/10/2018	09/24/2018
OR CDL 2 Clandestine Drug Lab Site Listing Oregon State Police 07/01/2018 08/01/2018	OR	CDL	Uninhabitable Drug Lab Properties	Department of Consumer & Business Services	09/21/2018	09/25/2018	10/22/2018
OR Coal. ASH Coal Ash Disposal Sites Listing Department of Environmental Quality 12/31/2017 03/16/2018 05/15/2018 OR CRL Confirmed Release List and Inventory Department of Environmental Quality 07/21/2018 <td< td=""><td>OR</td><td>CDL 2</td><td>Clandestine Drug Lab Site Listing</td><td></td><td>07/01/2018</td><td>08/01/2018</td><td>08/15/2018</td></td<>	OR	CDL 2	Clandestine Drug Lab Site Listing		07/01/2018	08/01/2018	08/15/2018
OR CRL Confirmed Release List and Inventory Department of Environmental Quality 08/10/2018 08/12/2018 <th< td=""><td>OR</td><td>COAL ASH</td><td>Coal Ash Disposal Sites Listing</td><td></td><td>12/31/2017</td><td>03/16/2018</td><td>05/15/2018</td></th<>	OR	COAL ASH	Coal Ash Disposal Sites Listing		12/31/2017	03/16/2018	05/15/2018
OR Drycleaning Facilities Department of Environmental Quality 07/21/2018 07/31/2018 08/15/2018 OR ECSI Environmental Caulanuy Site Information System Department of Environmental Quality 09/18/2018 10/23/2018 OR ENG CONTROLS Engineering Controls Recorded at ESCI Sites Department of Environmental Quality 09/18/2018 00/23/2018 OR Financial Assurance 1 Financial Assurance Information Listing Department of Environmental Quality 06/21/2018 08/21/2018	OR	CRL			08/01/2018	08/10/2018	09/24/2018
OR ECSI Environmental Cleanup System Department of Environmental Quality 10/01/2018 10/03/2018 OR ENF Enforcement Action Listing Department of Environmental Quality 0/01/2018 10/03/2018 10/03/2018 OR ENG CONTROLS Engineering Controls Recorded at ESCI Sites Department of Environmental Quality 0/01/2018 0/01/2018 0/03/2018 0/23/2018 OR Financial Assurance 1 Financial Assurance Information Listing Department of Environmental Quality 0/02/2018 0/21/2018	OR	DRYCLEANERS	Drycleaning Facilities		07/27/2018	07/31/2018	08/15/2018
OR ENF Enforcement Action Listing Department of Environmental Quality 09/18/2018 09/19/2018 10/23/2018 OR ENG CONTROLS Engineering Controls Recorded at ESCI Sites Department of Environmental Quality 10/21/2018 10/23/2018 OR Financial Assurance 1 Financial Assurance Information Listing Department of Environmental Quality 05/21/2018 08	OR	ECSI			10/01/2018	10/03/2018	10/23/2018
OR ENS CONTROLS Engineering Controls Recorded at ESCI Sites Department of Environmental Quality 10/01/2018 10/02/2018 OR Financial Assurance 1 Financial Assurance 1 formation Listing Department of Environmental Quality 08/21/2018	OR				09/18/2018	09/19/2018	10/23/2018
OR Financial Assurance 1 Financial Assurance Information Listing Department of Environmental Quality 05/21/2018 06/21/2018 07/23/2018 OR HAZMAT Hazmat/Incidents State Fire Marshal's Office 07/01/2018 08/2	OR	ENG CONTROLS	Engineering Controls Recorded at ESCI Sites		10/01/2018	10/03/2018	10/23/2018
OR HaZMAT Hazmat/Incidents State Fire Marshal's Office 07/01/2018 08/01/2018 <th0 01="" 2018<="" th=""> 08/01/2018 <t< td=""><td>OR</td><td>Financial Assurance 1</td><td></td><td></td><td>05/21/2018</td><td>06/21/2018</td><td>07/23/2018</td></t<></th0>	OR	Financial Assurance 1			05/21/2018	06/21/2018	07/23/2018
OR N N HSTOld Closed SW Disposal SitesDepartment of Environmental Quality04/01/20007/08/200307/18/2003OR NST CONTROLInstitutional Controls Recorded at ESCI SitesDepartment of Environmental Quality0/01/20180/03/20180/03/2018OR NST CONTROLLaking Underground Storage Tank DatabaseDepartment of Environmental Quality0/7/02/20180/8/10/2180/02/2018OR NDESWastewater Permits DatabaseDepartment of Environmental Quality0/7/02/20180/8/10/2180/02/2018OR N RGA HWSRecovered Government Archive State Hazardous Waste FacilitieDepartment of Environmental Quality0/7/01/20130/10/2014OR R GA LFRecovered Government Archive State Hazardous Waste FacilitiesDepartment of Environmental Quality0/01/20180/02/2018OR S PILLS S0Spill DataDepartment of Environmental Quality1/01/20181/03/20140/22/2018OR S WFLFSpill DataDepartment of Environmental Quality1/01/20181/03/20140/22/2018OR S WFCYSpill DataDepartment of Environmental Quality0/01/20180/22/20180/22/2018OR S WFCYSold Waste Facilities ListDepartment of Environmental Quality0/01/20180/22/20180/22/2018OR S WFCYSold Waste Facilities ListDepartment of Environmental Quality0/01/20180/22/20180/22/2018OR S WFCYSold Waste Facilities ListDepartment of Environmental Quality0/01/20180/22/20180/22/2018OR <td>OR</td> <td>Financial Assurance 2</td> <td>Financial Assurance Information Listing</td> <td>Department of Environmental Quality</td> <td>08/20/2018</td> <td>08/21/2018</td> <td>09/24/2018</td>	OR	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Quality	08/20/2018	08/21/2018	09/24/2018
OR N N HSTOld Closed SW Disposal SitesDepartment of Environmental Quality04/01/20007/08/200307/18/2003OR 	OR	HAZMAT	Hazmat/Incidents	State Fire Marshal's Office	07/01/2018	08/01/2018	08/15/2018
ORHSISHazardous Substance Information SurveyState Fire Marshal's Office05/03/201805/03/201806/03/201806/07/23/2018ORINST CONTROLInstitutional Controls Recorded at ESCI SitesDepartment of Environmental Quality07/02/201808/10/201809/24/2018ORNPDESWastewater Permits DatabaseDepartment of Environmental Quality09/20/201809/20/201809/21/2018OROR MANIFESTManifest InformationDepartment of Environmental Quality09/20/201801/03/201401/03/2014ORRGA HWSRecovered Government Archive State Hazardous Waste FacilitieDepartment of Environmental Quality07/01/201301/03/2014ORRGA LISTRecovered Government Archive Solid Waste Facilities ListDepartment of Environmental Quality07/01/201301/03/2014ORSPILLSSpill DataDepartment of Environmental Quality07/01/201301/03/201401/03/2014ORSPILLS 90SPILLS90 data from FirstSearchFirstSearch05/01/200601/03/201409/24/2018ORSWRCYRecycling Facility Location ListingDepartment of Environmental Quality09/26/201809/21/201809/21/2018ORUICUnderground Storage Tank DatabaseDepartment of Environmental Quality09/28/201809/21/201809/21/2018ORSWRCYRecycling Facility Location ListingDepartment of Environmental Quality07/02/201809/21/201809/21/2018ORUICUnderground Injection Control Program DatabaseDepartm	OR	HIST LF	Old Closed SW Disposal Sites	Department of Environmental Quality	04/01/2000		07/18/2003
ORLUSTLeaking Underground Storage Tank DatabaseDepartment of Environmental Quality07/02/201808/10/201809/24/2018ORNPDESWastewater Permits DatabaseDepartment of Environmental Quality09/20/201800/20/2018 </td <td>OR</td> <td>HSIS</td> <td></td> <td>State Fire Marshal's Office</td> <td>05/03/2018</td> <td>05/03/2018</td> <td>06/07/2018</td>	OR	HSIS		State Fire Marshal's Office	05/03/2018	05/03/2018	06/07/2018
OR NPDESWastewater Permits DatabaseDepartment of Environmental Quality09/20/201809/20/201801/22/2018OROR MANIFESTManifest InformationDepartment of Environmental Quality12/31/20108/06/201808/15/2018ORRGA LWSRecovered Government Archive State Hazardous Waste FacilitieDepartment of Environmental Quality12/31/20108/06/201801/32/2014ORRGA LFRecovered Government Archive State Hazardous Waste Facilities ListDepartment of Environmental Quality07/01/201301/13/2014ORRGA LUSTRecovered Government Archive Leaking Underground Storage TanDepartment of Environmental Quality07/01/201801/02/2018ORSPILLSSpill DataDepartment of Environmental Quality10/01/201810/02/201802/22/2013ORSPILLS 90SPILLS90 data from FirstSearchFirstSearchDepartment of Environmental Quality07/16/201807/01/201802/22/2018ORSWRCYRecycling Facility Location ListingDepartment of Environmental Quality07/16/201809/21/201808/20/2018ORUSTUnderground Injection Control Program DatabaseDepartment of Environmental Quality07/02/201808/10/201809/24/2018ORVCSVoluntary Cleanup Program SitesDEQDepartment of Environmental Quality07/02/201808/10/201807/20/2018ORUS2COR ACTION2020 Corrective Action Program ListEnvironmental Protection Agency09/30/201705/08/201807/20/2018US2	OR	INST CONTROL			10/01/2018	10/03/2018	10/23/2018
OR NPDESWastewater Permits DatabaseDepartment of Environmental Quality09/20/201809/20/201801/22/2018OROR MANIFESTManifest InformationDepartment of Environmental Quality12/31/20108/06/201808/15/2018ORRGA LWSRecovered Government Archive State Hazardous Waste FacilitieDepartment of Environmental Quality12/31/20108/06/201801/32/2014ORRGA LFRecovered Government Archive State Hazardous Waste Facilities ListDepartment of Environmental Quality07/01/201301/13/2014ORRGA LUSTRecovered Government Archive Leaking Underground Storage TanDepartment of Environmental Quality07/01/201801/02/2018ORSPILLSSpill DataDepartment of Environmental Quality10/01/201810/02/201802/22/2013ORSPILLS 90SPILLS90 data from FirstSearchFirstSearchDepartment of Environmental Quality07/16/201807/01/201802/22/2018ORSWRCYRecycling Facility Location ListingDepartment of Environmental Quality07/16/201809/21/201808/20/2018ORUSTUnderground Injection Control Program DatabaseDepartment of Environmental Quality07/02/201808/10/201809/24/2018ORVCSVoluntary Cleanup Program SitesDEQDepartment of Environmental Quality07/02/201808/10/201807/20/2018ORUS2COR ACTION2020 Corrective Action Program ListEnvironmental Protection Agency09/30/201705/08/201807/20/2018US2	OR	LUST	Leaking Underground Storage Tank Database	Department of Environmental Quality	07/02/2018	08/10/2018	09/24/2018
ORRGA HWSRecovered Government Archive State Hazardous Waste FacilitieDepartment of Environmental Quality07/01/201301/03/2014ORRGA LFRecovered Government Archive Solid Waste Facilities ListDepartment of Environmental Quality07/01/201301/03/2014ORRGA LUSTRecovered Government Archive Leaking Underground Storage TanDepartment of Environmental Quality10/01/201810/02/2018ORSPILLSSpil DataDepartment of Environmental Quality10/01/201810/02/201810/23/2018ORSPILLS 90SPILLS90 data from FirstSearchFirstSearch05/01/200601/03/201302/22/2013ORSWF/LFSolid Waste Facilities ListDepartment of Environmental Quality07/16/201807/20/201807/20/2018ORUICUnderground Injection Control Program DatabaseDepartment of Environmental Quality09/25/201809/21/201809/21/2018ORUSCUnderground Storage Tank DatabaseDepartment of Environmental Quality09/25/201809/21/201807/20/2018ORVCSVoluntary Cleanup Program ListEnvironmental Protection Agency09/02/01705/08/201807/20/2018US2020 COR ACTION2020 Corrective Action Program ListEnvironmental Protection Agency09/10/201809/14/2018USBRSBiennial Reporting SystemEPA/NTIS12/31/200508/07/200909/21/2017USCOAL ASH DOESteam-Electric Plant Operation DataDepartment of Interior09/01/201401/02/2014US<	OR	NPDES			09/20/2018	09/20/2018	
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USCOAL ASH DOESteam-Electric Plant Operation DataDepartment of Energy12/31/200508/07/200910/22/2009USCOAL ASH EPACoal Combustion Residues Surface Impoundments ListEnvironmental Protection Agency07/01/201409/10/201410/20/2014USCONSENTSuperfund (CERCLA) Consent DecreesDepartment of Justice, Consent Decree Library06/30/201807/17/201810/05/2018USCORRACTSCorrective Action ReportEPA03/01/201803/28/201806/22/2018USDEBRIS REGION 9Torres Martinez Reservation Illegal Dump Site LocationsEPA, Region 901/12/200905/07/200909/21/2009	US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2018	09/11/2018	09/14/2018
USCOAL ASH EPACoal Combustion Residues Surface Impoundments ListEnvironmental Protection Agency07/01/201409/10/201410/20/2014USCONSENTSuperfund (CERCLA) Consent DecreesDepartment of Justice, Consent Decree Library06/30/201807/17/201810/05/2018USCORRACTSCorrective Action ReportEPA03/01/201803/28/201806/22/2018USDEBRIS REGION 9Torres Martinez Reservation Illegal Dump Site LocationsEPA, Region 901/12/200905/07/200909/21/2009	US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015		09/28/2017
USCONSENTSuperfund (CERCLA) Consent DecreesDepartment of Justice, Consent Decree Library06/30/201807/17/201810/05/2018USCORRACTSCorrective Action ReportEPA03/01/201803/28/201806/22/2018USDEBRIS REGION 9Torres Martinez Reservation Illegal Dump Site LocationsEPA, Region 901/12/200905/07/200909/21/2009	US	COAL ASH DOE	Steam-Electric Plant Operation Data		12/31/2005	08/07/2009	10/22/2009
USCORRACTSCorrective Action ReportEPA03/01/201803/28/201806/22/2018USDEBRIS REGION 9Torres Martinez Reservation Illegal Dump Site LocationsEPA, Region 901/12/200905/07/200909/21/2009	US	COAL ASH EPA			07/01/2014	09/10/2014	10/20/2014
US DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations EPA, Region 9 01/12/2009 05/07/2009 09/21/2009	US		Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	06/30/2018	07/17/2018	10/05/2018
	US	CORRACTS		EPA	03/01/2018	03/28/2018	06/22/2018
US DOCKET HWC Hazardous Waste Compliance Docket Listing Environmental Protection Agency 05/31/2018 07/26/2018 10/05/2018	US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
	US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US DOD Department of Defense Sites USGS 12/31/2005 11/10/2006 01/11/2007	US		Department of Defense Sites		12/31/2005		
US DOT OPS Incident and Accident Data Department of Transporation, Office of Pipeli 07/31/2012 08/07/2012 09/18/2012	US		Incident and Accident Data		07/31/2012	08/07/2012	09/18/2012
US Delisted NPL National Priority List Deletions EPA 07/17/2018 08/09/2018 09/07/2018	US						
US ECHO Enforcement & Compliance History Information Environmental Protection Agency 09/02/2018 09/05/2018 09/14/2018				5,	09/02/2018	09/05/2018	09/14/2018
US EDR Hist Auto EDR Exclusive Historical Auto Stations EDR, Inc.				*			
US EDR Hist Cleaner EDR Exclusive Historical Cleaners EDR, Inc.	US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	06/18/2018	06/27/2018	09/14/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	08/07/2018	09/05/2018	10/05/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/22/2018	08/22/2018	10/05/2018
	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017		09/14/2018
	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/26/2018		06/08/2018
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014		
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/13/2018	05/18/2018	07/20/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	05/08/2018	05/18/2018	07/20/2018
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/01/2018	05/18/2018	07/20/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/24/2018	05/18/2018	07/20/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/25/2018	05/18/2018	07/20/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/10/2018		07/20/2018
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014		01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/13/2014		
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/12/2018	05/18/2018	07/20/2018
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	04/12/2018	05/18/2018	
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/01/2018		
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/01/2018	05/18/2018	07/20/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/24/2018	05/18/2018	
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/23/2018		07/20/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015		
US	INDIAN VCP RT	Voluntary Cleanup Priority Listing	EPA, Region 7	03/20/2008	09/29/2015	05/19/2008
	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	07/17/2018		10/05/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	07/17/2018	08/09/2018	10/05/2018
US		Land Use Control Information System	Department of the Navy	05/14/2018	05/18/2018	07/20/2018
	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
		National Priority List	EPA	07/17/2018	08/09/2018	09/07/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	07/17/2018	08/09/2018	09/07/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/02/2018	07/05/2018	10/05/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RMP	Risk Management Plans	Environmental Protection Agency	08/01/2018	08/22/2018	10/05/2018
US	ROD	Records Of Decision	EPA	07/17/2018	08/09/2018	10/05/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	07/17/2018	08/09/2018	09/07/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	07/17/2018	08/09/2018	09/07/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/18/2018	06/20/2018	09/14/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/18/2018	06/20/2018	09/14/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	05/31/2018	06/27/2018	10/05/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/18/2018	06/20/2018	09/14/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2018	08/29/2018	10/05/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2017	06/19/2018	09/14/2018
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	07/01/2018	08/01/2018	08/31/2018
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2017	06/15/2018	07/09/2018
				12/01/2011	00/10/2010	01/03/2010
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
OR	Daycare Centers	Sensitive Receptor: Child Care Listings	Employment Department			

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
OR	State Wetlands	Wetlands Inventory Data	Oregon Geospatial Enterprise Office			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line D	Pata	PennWell Corporation			

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BRETT HALL 2522 SE JESSE BUTLER CIR POWELL BUTTE, OR 97753

TARGET PROPERTY COORDINATES

Latitude (North):	44.22232 - 44° 13' 20.35"
Longitude (West):	121.100826 - 121° 6' 2.97"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	651700.1
UTM Y (Meters):	4898103.5
Elevation:	3097 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6067496 POWELL BUTTE, OR
Version Date:	2014
Southwest Map: Version Date:	6067448 FORKED HORN BUTTE, OR 2014

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:

- Groundwater flow direction, and
 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.

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).

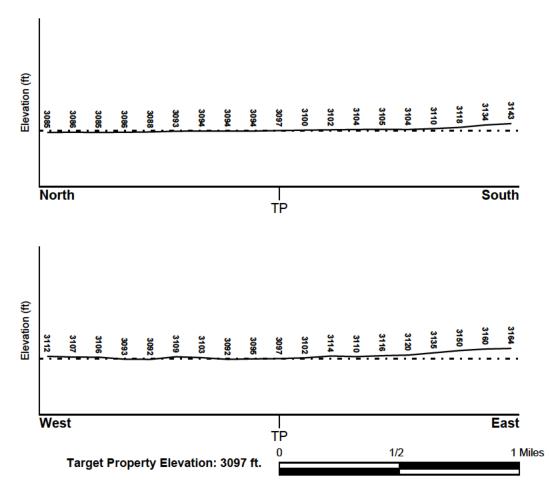
TOPOGRAPHIC INFORMATION

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 WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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.

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
41017C0525E	FEMA FIRM Flood data
Additional Panels in search area:	FEMA Source Type
Not Reported	
NATIONAL WETLAND INVENTORY	

	NWI Electronic
NWI Quad at Target Property	Data Coverage
POWELL BUTTE	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.

AQUIFLOW®

Search Radius: 1.000 Mile.

MAP ID

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.

Not Reported

LOCATION

FROM TP

GENERAL DIRECTION GROUNDWATER FLOW

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

GEOLOGIC AGE IDENTIFICATION

Era:	Cenozoic Cat	egory:	Volcanic Rocks
System:	Quaternary		
Series:	Quaternary volcanic rocks		
Code:	Qv (decoded above as Era, System & Series)		

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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	DESCHUTES
Soil Surface Texture:	sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.
Hydric Status: Soil does not meet the	requirements for a hydric soil.
Corrosion Potential - Uncoated Steel:	MODERATE

Depth to Bedrock Min:	> 20 inches
-----------------------	-------------

Depth to Bedrock Max: > 40 inches

Soil Layer Information							
	Βοι	indary		Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
2	7 inches	17 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
3	17 inches	31 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 7.40
4	31 inches	35 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	unweathered bedrock stony - sandy loam
Surficial Soil Types:	unweathered bedrock stony - sandy loam
Shallow Soil Types:	clay loam gravelly - sandy loam
Deeper Soil Types:	fine sandy loam very gravelly - sand

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 Federal FRDS PWS	1.000 Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
A2	USGS40000989428	1/8 - 1/4 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

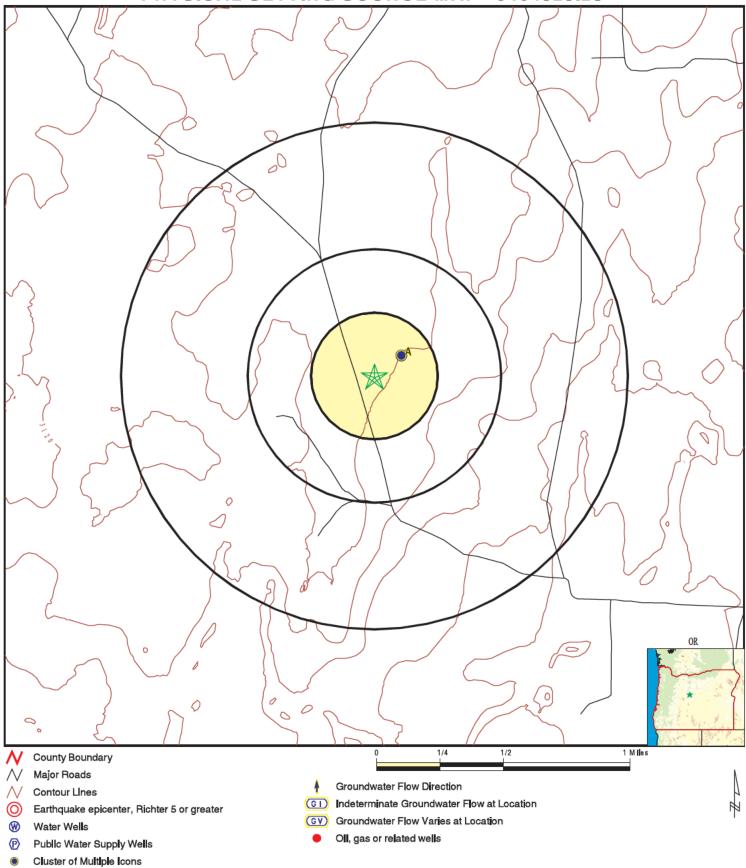
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
A1	ORW60000009437	1/8 - 1/4 Mile NE

PHYSICAL SETTING SOURCE MAP - 5464929.2s



	2522 SE Jesse Butler Cir Powell Butte OR 97753	INQUIRY #:	AECOM Brittany Kirchmann 5464929.2s October 25, 2018 11:42 am
		Copyrig	nt © 2018 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
A1 NE 1/8 - 1/4 Mile Higher	OR WELLS	ORW60000009437
A2 NE <u>Click here for full text details</u>	FED USGS	USGS40000989428

NE <u>Click here for full text details</u> 1/8 - 1/4 Mile Higher

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for CROOK County: 2

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

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.

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 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data

Source: Oregon Geospatial Enterprise Office Telephone: 503-378-2166

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.

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 Well Data Source: Department of Water Resources Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Department of Geology and Mineral Industries Telephone: 971-673-1540 A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon Source: Oregon Health Services Telephone: 503-731-4272 Radon Levels in Orgeon

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.

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

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Appendix B

Preliminary Assessment Documentation

Appendix B.1 Interview Records

Date/Time: 10.5-18 Can your name/role be used in the PA Report? Y or N Interviewee: Title: ENVIRONMENTON such AST Can you recommend anyone we can interview? Morn throughout notes Phone Number: Email: 1. Roles or activities with the Facility/years working at the Facility. of MD favilities since 2003 2. Where can I find previous facility ownership information? Real Estate Manager (and) What can you tell us about the history of PFAS including aqueous film forming foam (AFFF) at the 3. Facility? Was it used for any of the following activities, circle all that apply and indicate years of active use, if known? Identify these locations on a facility map. Maintenance aware of Fire Training Areas Firefighting (Active Fire) Crash Fire Suppression Systems (Hangers/Dining Facilities) Fire Protection at Fueling Stations Non-Technical/Recreational/ Pest Management Metals Plating Facility Waterproofing Uniforms (Laundry Facilities) Other 4. Fill out CSM Information worksheet with the Environmental Manager. 5. Are any current buildings constructed with AFFF dispensing systems or fire suppression systems? What are the AFFF/suppression system test requirements? What is the frequency of testing the AFFF/suppression system? Do you have "As Built" drawings for the buildings? incoun

Facility: Interviewer:

Facility:___ Interviewer:___ Date/Time:

Are fire suppression systems currently charged with AFFF or have they been retrofitted for use of 6. high expansion foam? If retrofitted, when was that done? Unknown 7. How is AFFF procured? Do you have an inventory/procurement system that tracks use? would be putchased from manufacturer via federal purchasing. 8. What type of AFFF has been/is being used (3%, 6%, Mil Spec Mil-F-24385, High Expansion)? Manufacturer (3M, Dupont, Ansul, National Foam, Angus, Chemguard, Buckeye, Fire Service Plus)? Unknown 9. Where is the AFFF stored? How is it stored (tanks, 55-gallon drums, 5-gallon buckets)? What size are the storage tanks? Is the AFFF stored as a mixed solution (3% or 6%) or concentrated material? knein 10. How many FTAs are/were on this facility and where are they? Locate on a map. How many FTAs are active and inactive? For inactive FTAs, when was the last time that fire training using AFFF was conducted at them? Nall

Facility: Interviewer: Date/Time:

11. When a release of AFFF occurs during a fire training exercise, now and in the past, how is the AFFF cleaned and disposed of? Were retention ponds built to store discharged AFFF? Was the AFFF trickled to the sanitary sewer or left in the pond to infiltrate? Inknun 12. Can you recall specific times when city, county, and/or state personnel came on-post for training? If so, please state which state/county agency or military entity? Do you have any records, including photographs to share with us? & MOUT SITE. 13. Did military routinely or occasionally fire train off-post? List the units that you can recall used/trained at various areas. Incrain 14. Did individual units come with their own safety personnel, did they also bring their own AFFF? Was training with AFFF part of these exercises? How were emergencies handled under these circumstances? Bring an equipment 15. Are there specific emergency response incident reports (i.e., aircraft or vehicle crash sites and fires)? If so, may we please copy these reports? Who (entity) was the responder? Unknann no aircraft@ Site

•

Facility:	
Interviewer:	
Date/Time:	

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		Interviewer: Date/Time:
AFFF? Is/		it common practice to wash away fuel spills with response to fuel releases or emergency runway
	Nð	:
	used for forest fires or fire manage nd who was involved?	ment on-post/off-post? If so, please describe what
	Unknain	
		county, city, and local fire department? Please list, ev
if informal	If formalized, may we have a copy	of the agreement?
	yes	
buildings,		FFF has been stored, released, or used (i.e. hanga nt testing and maintenance areas, emergency respo nent plants, and AFFF ponds)?
	unknain	· · ·
	no hangar	s antite
	guer	
20. Are you av involved?	· · · ·	
	· · · ·	FFF? If so, how was AFFF used? What entities were

21. Are there past studies you are aware of with environmental information on plants/animals/ groundwater/soil types, etc., such as Integrated Cultural Resources Management Plans or Integrated Natural Resources Management Plans? Potentially - speak with curtural resources Specialist 22. What other records might be helpful to us (environmental compliance, investigation records, admin record) and where can we find them? Potential invoice work arders for purchases to provide) 23. Do you have or did you have a chrome plating shop on base? What were/are the years of operation of that chrome plating shop? NO 24. Do you know whether the shop has/had a foam blanket mist suppression system or used a fume hood for emissions control? If foam blanket mist suppression was used, where was the foam stored, mixed, applied, etc.? Νð 25. How is off-spec AFFF disposed (used for training, turned in, or given to a local Fire Station)? If applicable, do you know the name of the vendor that removes off-spec AFFF? Do you have copies of the manifest or B/L? unchain erkey to local Fire if any

Facility:_____ Interviewer:_____ Date/Time:_____

. , .

26. Do you recommend anyone else we can interview? If so, do you have contact information for them?

Base Ops Supervisor

PA Interview Questionnaire - Fire Station

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the law.

Facility		
Interviewer		
Date/Time:	81-2-01	_0

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Pho Em	le: forest officer	Can you recommend anyone we can interview?
	Roles or activities with the Facility/years wo	rking at the Facility.
		-fighting operations
		FF at the Facility? Was it used for any of the following ears of active use, if known? Identify these locations on
·	Maintenance (e.g., ramp washing) Fire Training Areas Fuelighting (Active Fire) — If abcol Crash Fire Suppression Systems (Hangers/Dining F Fire Protection at Fueling Stations Non-Technical/Recreational/ Pest Manageme	entry recessary but no entry acilities)
		FFF dispensing systems or fire suppression systems? equirements? What is the frequency of testing at the
		x .
	Are fire suppression systems currently char high expansion foam?	ged with AFFF or have they been retrofitted for use
	No	
5.	How is AFFF procured? Do you have an inve	entory/procurement system that tracks use?
	through	entory/procurement system that tracks use? Wildlands Fire Mng

PA Interview Questionnaire – Fire Station

Facility:	
Interviewer:	
Date/Time:	

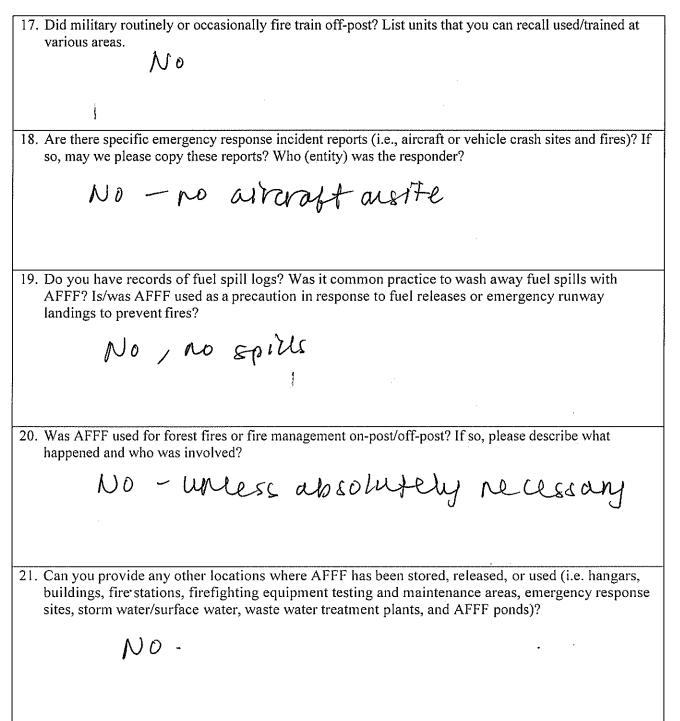
 $\left(\right)$

What type of AFFF has been/is being used (3%, 6%, Mil Spec Mil-F-24385, High Expansion)? 6. Manufacturer (3M, Dupont, Ansul, National Foam, Angus, Chemguard, Buckeye, Fire Service Plus)? unknown type-AFFF used by other agenetics areite 7. Is AFFF formulated on base? If so, where is the solution mixed, contained, transferred, etc.? K)O Where is the AFFF stored? How is it stored (tanks, 55-gallon drums, 5-gallon buckets)? What 8. size are the storage tanks? Is the AFFF stored as a mixed solution (3% or 6%) or concentrated material? NLa Non PFAS-containing form in 5gal buckets in conexe container 9. How is the AFFF transferred to emergency response vehicles, suppression systems, flightline extinguishers? Is/was there a specified area on the facility where vehicles are filled with AFFF and does this area have secondary containment in case of spills? How and where are vehicles storing AFFF cleaned/decontaminated? If in a firefighting truck, it walld aready be in it. 10. Provide a list of vehicles that carried AFFF, now and in the past, and where are/were they located? Potentially the fire fighting trucks Cant confirm. 11. Any vehicles have a history of leaking AFFF? Do you/did you test the vehicles spray patterns to make sure equipment is working properly? How often are/were these spray tests performed and can you provide the locations of these tests, now and in the past? Nυ

12. How many FTAs are/were on this facility and where are they? Locate on a map. How many FTAs are active and inactive? For inactive FTAs, when was the last time that fire training using AFFF was conducted at them? Two - USFS Engine Academy training with AFFF 2000-2015 TSITE - FBI/POLICE/Fire training with AFFF 2016-2017 13. What types of fuels/flammables were used at the FTAs? None - fust applied AFFF 14. What was the frequency of AFFF use at each location? When a release of AFFF occurs during a fire training exercise, now and in the past, how is/was the AFFF cleaned and disposed of? Were retention ponds built to store discharged AFFF? Was the AFFF trickled to the sanitary sewer or left in the pond to infiltrate? me per year (2000-2017) unknown volume. Infiltrated unpaved ground 15. Are there mutual aid/use agreements between county, city, local fire department? Please list, even if informal. If formalized, may we have a copy of the agreement? Can you recall specific times when city, county, state personnel came on-post for training? If so, please state which state/county agency, military entity? Do you have any records, including photographs to share with us? yes - between USFS, City/County Fire Dept. 16. Did individual units come on-post with their own safety personnel, did they also bring their own AFFF? Was training with AFFF part of these exercises? How were emergencies handled under these circumstances? yes - ally used AFFF, no pires set

PA Interview Questionnaire – Fire Station

Facility:	
Interviewer:	
Date/Time:	



jet to l

PA Interview Questionnaire – Fire Station	Facility: Interviewer: Date/Time:	
22. Are you aware of any other creative uses of AFFF? If so, how was involved?	s AFFF used?	What entities were
		2

23. How is off-spec AFFF disposed (used for training, turned in, or given to a local Fire Station)? If applicable, do you know the name of the vendor that removes off-spec AFFF? Do you have copies of the manifest or B/L?

Upknavn

24. Do you recommend anyone else we can interview? If so, do you have contact information for them?

Wildland Fire Magr

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	rac	ility: Breff Hal
		wer ime: <u>10-5-18</u>
Interviewee:	Can your name/role be used in th	e PA Report? Y or N
Title: Base DPS Supervisor	Can you recommend anyone we	can interview?
Phone Number:	Or N Wildland Fri	
Email:	Wildland Fi	re Manager
Roles or activities with the Facility/Years wo		
Supervisor of fau' since 2003	lify operation.	<u>ſ</u>
since 2003	V	
PFAS Use: Identify accidental/intentional release		
storage container size (maintenance, fire training		
builts), fueling stations, crash sites, pest manage waterproofing). How are materials ordered/purc		metals plating, or
B) the materials erasted parts	nabea disposed shared what emeret	
A - FF- Lup in in		Known Uses
AFFF training @ +	he MOUT site	Known Uses
AFFF training Q + · 2000 - 2015 by L	NE MOUT GIVE	(Use
	NE MOUT GIFE 15F5 Engine pured to wood	Procurement
	NE MOUT GIFE 15F5 ETIGINE puied to wood (training.	Vse Procurement Disposition
· 2000 - 2015 by I Academy, App	training.	Vse Procurement Disposition Storage (Mixed)
· 2000 - 2015 by 1 Academy, App Structures for	training.	Vse Procurement Disposition
· 2000 - 2015 by 1 Academy, App Structures for	training.	Vse Procurement Disposition Storage (Mixed)
• 2000 - 2015 by i Academy, App Structures for Entire Mour &	training.	Vse Procurement Disposition Storage (Mixed) Storage (Solution)
• 2000 - 2015 by i Academy, App Structures for Entire Mour &	training.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec
 2000 - 2015 by 1 Academy, App structures for Entire MOUT & 2016 - 2017 by Fire Dept (Loc Applied to Stru 	training.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment
• 2000 - 2015 by i Academy, App Structures for Entire Mour &	training.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles
 2000 - 2015 by 1 Academy, App SHULTER for ENTITE MOUT & 2016 - 2017 by Fire Dept (Loc Applied to Stru bomb training 	training.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles Nozzle and Suppressi
 2000 - 2015 by i Academy, App Structures for Entire MOUTS 2016 - 2017 by Fire Dept (Loc Applied to Stru bomb training 	training.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles Nozzle and Suppressing
 2000 - 2015 by 1 Academy, App Structures for Entire MOUTS 2016 - 2017 by Fire Dept (Loc Applied to Stru bomb training 	FBI/ police/ de (county). de (county). de (county). ctures for g exercises.	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles Nozzle and Suppression System Testing Dining Facilities
 2000 - 2015 by 1 Academy, App Structures for Entire MOUTS 2016 - 2017 by Fire Dept (Loc Applied to Stru bomb training 	FBI/ police/ de l'ounty). de l'ounty). de l'ounty). de l'ounty). de l'ounty).	Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles Nozzle and Suppressis System Testing Dining Facilities Vehicle Washing

بد

Facility: Interviewer: Date/Time:

TWO FIRE AVUCKS disite - NO AFFF stored currently - Wildfand Fire Manager ATTE rever used in five trucks, only class A for any. reived a fire truck from city of redmand 2011 dused till 2014. - Trules washed in parking area with any, since discontinued (unknown time) and truck washing is at coutes in the wash DAG No truck host line washing (any in writer and does not involve form lives. - Unit Aviation Officer Central OR Fire Mingmit servicer us Forest Service Is not aware of US Forest Service Academy USI'NG AFFF CUSITE. IF FORM Was Used class A for structural fires not 1ND Med Involving Gills Fire operations specialist Prairie Div. US For est Service - US Farest service conducted numerous Engine Academy trainings ansite (2000 to zoil and zois to zois! Fran Haining occurred humapous times and of fram used. carcentra OF the foam NOT ENDUR. AFFF (CLASS Βı used.

Facility:	
Interviewer:	
Date/Time:	

foorp was used (AFFF PFAS CLASS R roution any as a demans 64 laτ the it into Cλ. NDA a AIJ Ø か ISP ١ſ Ŋ ₽ C 1site. Phis 2001 ĉ a d Ю P 11 · . .

PA Interview Questionnaire - Other	Facility: Interviewer: Date/Time:	
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Appendix B.2 Visual Site Inspection Checklists

Visual Survey	Inspection	Log
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\bigcirc	Recorded by: [ARNG Contact: _c
	Source/Release Information Date: Site Name / Area Name / Unique ID; Breff Flall Site / Area Acreage: 100 Historic Site Use (Brief Description): Ni UFany training confer
	Current Site Use (Brief Description):
	1. Was AFFF used (or spilled) at the site/area? Farest Serv. La. If yes, document how AFFF was used and usage time (e.g., fire fighting training 2001 to 2014); ANUALLY Farest Serv. La. If yes, document how AFFF was used and usage time (e.g., fire fighting training 2001 to 2014); ANUALLY 2. Has usage been documented? 2a. If yes, keep a record (place electronic files on a disk):
	3. What types of businesses are located near the site? Industrial / Commercial / Plating / Waterproofing / Residential 3a. Indicate what businesses are located near the site
	4. Is this site located at an airport/flightline? Y/N 4a. If yes, provide a description of the airport/flightline tenants
	Other Significant Site Features:
\bigcirc	1. Does the facility have a fire suppression system? Image: Constraint of the system? 1a. If yes, indicate which type of AFFF has been used: Image: Constraint of the system? 1b. If yes, describe maintenance schedule/leaks: Image: Constraint of the system? 1c. If yes, how often is the AFFF replaced: Image: Constraint of the system? 1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?
	Transport / Pathway Information Migration Potential: 1. Does site/area drainage flow off installation? 1a. If so, note observation and location:
	2. Is there channelized flow within the site/area? 2a. If so, please note observation and location:
	3. Are monitoring or dricking water wells located near the site? 3a. If so, please note the location:
	A re surface water intakes located near the site? 4. Are surface water intakes located near the site? 4a. If so, please note the location: 4b. If so, please note the location:
	Significant Topographical Features: . Has the infrastructure changed at the site/area? Ia. If so, please describe change (ex. Structures no longer exist):
	2. Is the site/area vegetated? 2a. If not vegetated, briefly describe the site/area composition: USAWED FNAW NEW MAY OF SIFE
	3. Does the site or area exhibit evidence of erosion?
	4a. If yes, describe the location and extent of the ponding:

Visual Survey Inspection Log

Receptor Informa	<i>ition</i>
1. Is access to the site	$\frac{Y}{N}$ 1a. If so, please note to what extent:
2. Who can access the	e site? Site Workers / Construction Workers / Trespassers / Residential / Recreational Users / Ecological 2a. Circle all that apply, note any not covered above:
3. Are residential area	as located near the site? 3a. If so, please note the location/distance:
4 . 4	
4. Are any schools/da	y care centers located near the site? 4a. If so, please note the location/distance/type:
5. Are any wetlands I	ocated near the site?
	5a. If so, please note the location/distance/type:
Additional Notes	
Photographic Log	
Photo ID/Name	Date & Location Photograph Description
A01001	14/2018 Building 500, on flightline, booking south, NE Corner Fire Suppression System

Appendix B.3 Conceptual Site Model Information

Preliminary Assessment – Conceptual Site Model Information

Site Name: Breff Houl					
Why has this location been identified as a site?					
Potential (Mistanical)	AFFF	Use	in	Are	fearing
trou'ning					

Are there any other activities nearby that could also impact this location?

Inknown - A	stentially	Redmond	Arport
_ 2 miles no	Fhurest	• •	· •

Training Events

Have any training events with AFFF occur	red at this site? 4-e.5				
If so, how often? Anually	2000-2017				
How much material was used? Is it documented?					
unknown - not documented					

Identify Potential Pathways: Do we have enough information to fully understand over land surface water flow, groundwater flow, and geological formations on and around the facility? Any direct pathways to larger water bodies?

Surface Water:

Surface water flow direction? NOVHWEST
Average rainfall? Quarantin (year (1990-2018)
Any flooding during rainy season? UNCAEWN.
Direct or indirect pathway to ditches? both
Direct or indirect pathway to larger bodies of water?
Does surface water pond any place on site?
Any impoundment areas or retention ponds? $\wedge 0$
Any NPDES location points near the site? $\land \circ$
How does surface water drain on and around the flight line? Ma - no flight line?

Preliminary Assessment – Conceptual Site Model Information

Groundwater:

Groundwater flow direction? Nor the est
Depth to groundwater? 370 ft
Uses (agricultural, drinking water, irrigation)?
Any groundwater treatment systems? NO
Any groundwater monitoring well locations near the site? $\mathcal{N} \mathcal{V}$
Is groundwater used for drinking water?
Are there drinking water supply wells on installation?
Do they serve off-post populations?
Are there off-post drinking water wells downgradient yes - Redmand Water
Department 2 miles nu

Waste Water Treatment Plant:

Has the installation ever had a WWTP, past or present?

If so, do we understand the process and which water is/was treated at the plant?

Do we understand the fate of sludge waste?

Is surface water from potential contaminated sites treated?

Equipment Rinse Water

1. Is firefighting equipment washed? Where does the rinse water go?

curren unshed enger ND Fire

2. Are nozzles tested? How often are nozzles tested? Where are nozzles tested? Are nozzles cleaned after use? Where does the rinse water flow after cleaning nozzles?

NO unter Flaus From powement to now in leach Wash. 3. Other?

Preliminary Assessment – Conceptual Site Model Information

Identify Potential Receptors:
Site Worker ansite
Construction Worker UNSITE
Recreational User
Residential OFF8172
Child OFF817-R
Ecological
_Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)?
Redmond Airport 2 miles now

Documentation

Ask for Engineering drawings (if applicable).

•

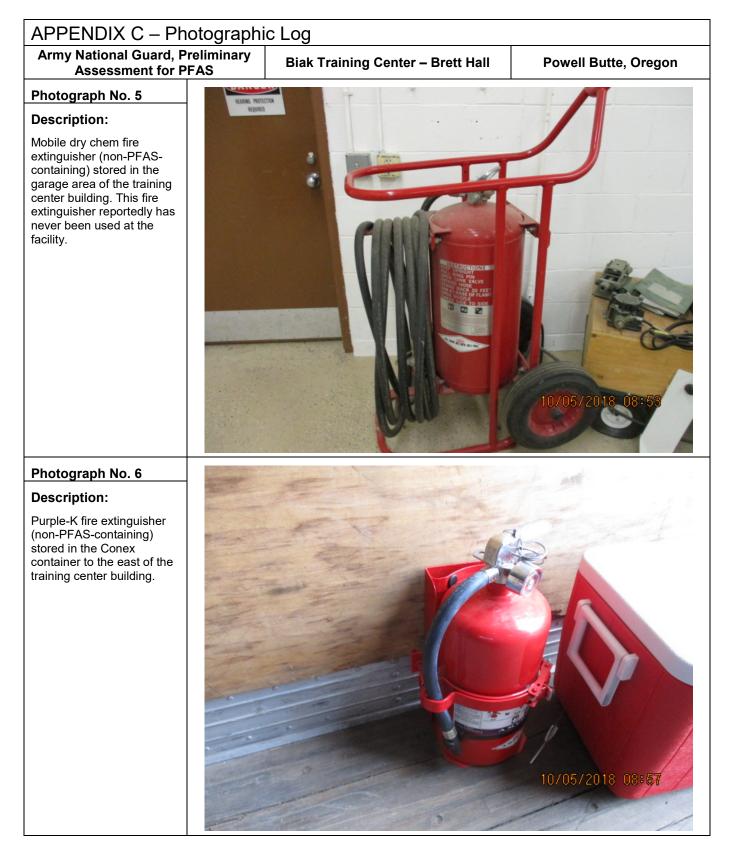
Has there been a reconstruction or changes to the drainage system? When did that occur?

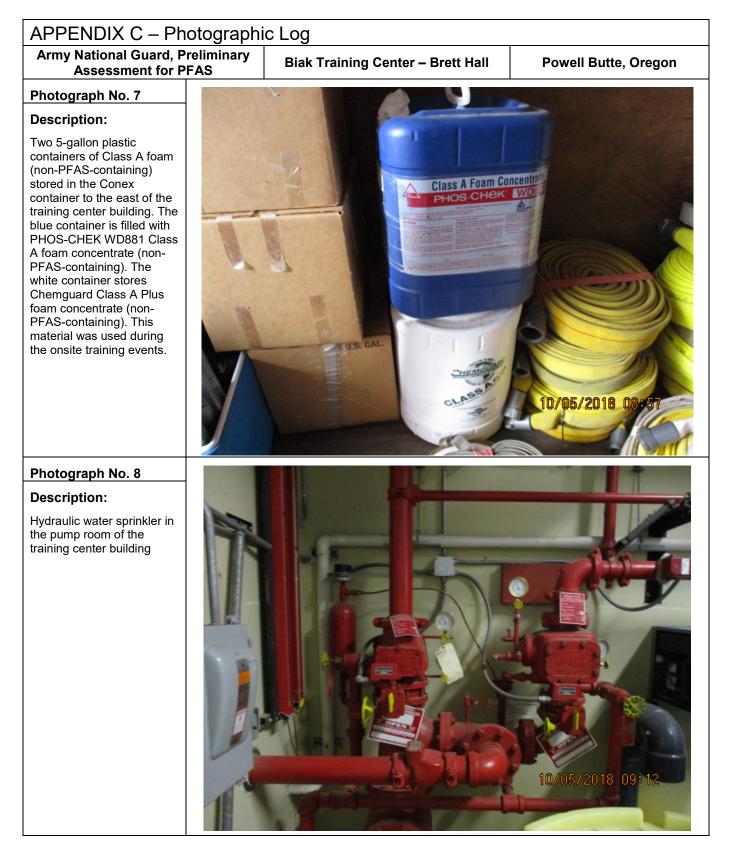
Unknown

Appendix C Photographic Log

APPENDIX C – Ph	otographi	c Log	
Army National Guard, P Assessment for P	reliminary FAS	Biak Training Center – Brett Hall	Powell Butte, Oregon
Photograph No. 1			
Description: Expired fire extinguishers (non-PFAS-containing) stored in the pump room of the training center building.			0/05/2018 08:27
Photograph No. 2 Description: View of the groundwater well and pump in the pump room of the training center building.			

APPENDIX C – Photographic Log					
Army National Guard, P Assessment for P	reliminary FAS	Biak Training Center – Brett Hall	Powell Butte, Oregon		
Photograph No. 3 Description: Water fire extinguishers and water spray backpacks stored in the training center building.					
Photograph No. 4 Description: Expired fire extinguishers (non-PFAS-containing) stored in the garage of the training center building.		SS SS SS SS SS SS SS SS SS SS SS SS SS	0/05/2018 08:53		





APPENDIX C – Photographic Log				
Army National Guard, P Assessment for P	reliminary FAS	Biak Training Center – Brett Hall	Powell Butte, Oregon	
Photograph No. 9 Description: Two fire trucks parked at the training center building under the awning (adjacent to the garage area). Both trucks contain only water and if needed, Class A foam (non-PFAS- containing) is added to the fire truck tanks.			FIRE 0 0 0 1 17	
Photograph No. 10 Description: Water and foam containers on one of the two fire trucks parked at the training center building under the awning (adjacent to the garage area). The truck tank contains only water and if needed, Class A foam (non-PFAS- containing) is added.				

APPENDIX C – Ph	otographi	c Log	
Army National Guard, P Assessment for P	reliminary	Biak Training Center – Brett Hall	Powell Butte, Oregon
Photograph No. 11			
Description:			
View looking southwest into the Military Operations in Urban Terrain (MOUT) range, located south of the training center building. This area was identified as Areas of Interest (AOI) 1 and 2.			10/05/2018 09:39
Photograph No. 12			
Description:			
View looking northwest at a dug-out fire line along the northern edge of the MOUT range, located south of the training center building.			
			10/05/2018 09:39