# FINAL Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

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

May 2020

#### Prepared for:



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#### **Acronyms and Abbreviations**

AECOM Technical Services, Inc.

AFFF aqueous film forming foam

AOI Area of Interest

ARNG Army National Guard

CERCLA Comprehensive Environmental Response, Compensation, and Liability

Act

CSM conceptual site model

°F degrees Fahrenheit

FTA fire training area

ORARNG Oregon Army National Guard

PA Preliminary Assessment

PFAS per- and poly-fluoroalkyl substances

PFOA perfluorooctanoic acid

PFOS perfluorooctanesulfonic acid
PIL Pollutant Initiation Level

SI Site Inspection US United States

USACE United States Army Corps of Engineers

USEPA United States Environmental Protection Agency

#### **Executive Summary**

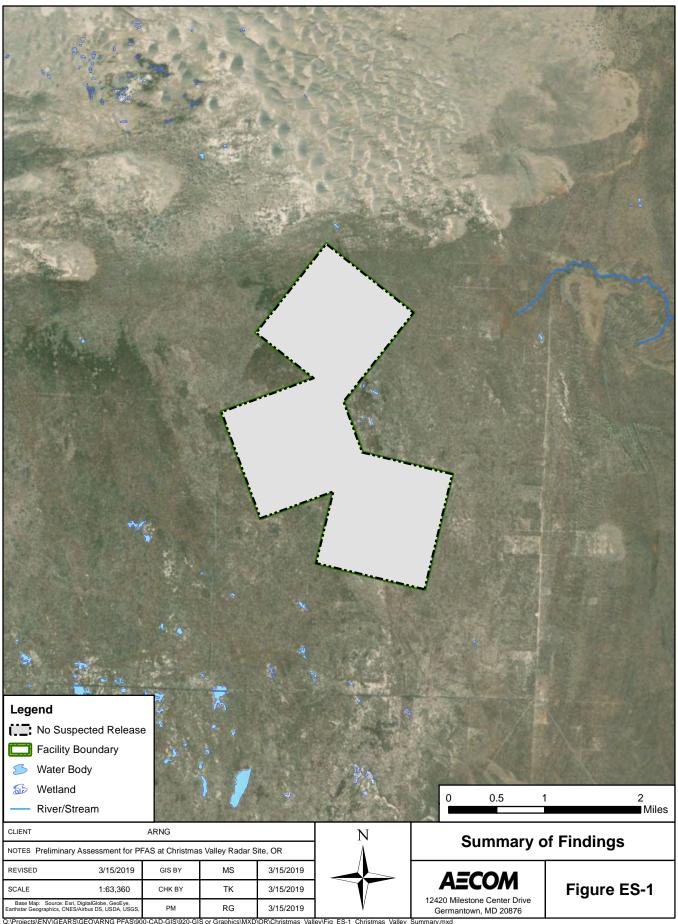
The United States Army Corps of Engineers Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic 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), primarily in the form of aqueous film forming foam released as part of firefighting activities, although other PFAS sources are possible.

AECOM completed a PA for PFAS at the Christmas Valley Radar Site in Christmas Valley, Oregon, to assess potential PFAS release areas and exposure pathways to receptors. The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a site visit on 3 October 2018
- Interviewed current Oregon ARNG personnel during the site visit as well as environmental managers and operations staff
- Completed visual site inspections to confirm absence of PFAS-related activities and documented with photographs

No Area(s) of Interest related to potential PFAS use, release, or storage were identified at Christmas Valley during the PA (**Figure ES-1**). Based on facility history and interviews with various personnel, there is no potential for exposure to PFAS contamination in surface soil, subsurface soil, groundwater, surface water, and sediment.

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#### 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 facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources 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 PFAS compounds in the environment varies. 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 has set Pollutant Initiation Levels (PILs) for PFAS/PFOA, which are not water quality standards (ORDEQ, 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 PILs.

This report presents findings of a PA for PFAS at the Christmas Valley Radar Site, formally known as the Over the Horizon Backscatter Site, in Christmas Valley, 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 where PFAS may have been used, stored, or released into the environment at Christmas Valley Radar Site. 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 site visit on 3 October 2018
- Interviewed current Oregon ARNG (ORARNG) personnel during the site visit as well as environmental managers and operations staff
- Completed visual site inspections to confirm absence of PFAS-related activities and documented with photographs

#### 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 fire training areas (FTAs) at the facility identified during the site visit
- **Section 3 Non-Fire Training Areas:** describes other locations of PFAS releases at the facility identified during the site visit
- Section 4 Emergency Response Areas: describes areas of AFFF release at the facility, specifically in response to emergency situations
- Section 5 Adjacent Sources: describes sources of PFAS release adjacent to the facility that are not under the control of ARNG
- **Section 6 Conceptual Site Model:** describes the pathways of PFAS transport and receptors for the Areas of Interest (AOIs) and the facility
- 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

Christmas Valley Radar Site is on Christmas Valley Highway (**Figure 1-1**) in Lake County, Christmas Valley, Oregon. Situated in the remote part of Central Oregon, the facility is 14 miles east to the nearest small town of Christmas Valley, three miles south of County Highway 5-14E, and 1 mile north of Christmas Valley Highway. The land surrounding the facility is public rangeland managed by US Bureau of Land Management including the Fossil Lake, Christmas Valley Sand Dunes, and Lost Forest Research Natural Area, all just north of the Site. The communities of Fort Rock, Silver Lake, Summer Lake, Hampton, and Wagontire lie within 40 miles of the facility.

The entire facility is formally known as the Over-the-Horizon Backscatter Radar Site, occupies 2,622 acres of undeveloped public land which was withdrawn from public use in 1989 and previously managed by the Air Force. ORARNG was granted a deed in 2010 for 326 acres of land which includes the former operations buildings, storage areas, and outside training areas (USAFCC, 2005 & 2006). The facility is split into three parcels of equal size, measuring approximately one square mile each, and includes perimeter roads around each parcel. The three parcels lie in an arc shape, with the concave center facing to the east. A 100-foot wide strip of land was established as an access road from the facility to Christmas Valley Highway with a wooden security fence enclosing the entire site.

Christmas Valley Radar Site was developed in the early 1970s to provide all-altitude, long-range surveillance of aerial approaches to the US. By using the ionosphere to refract outgoing radar waves and return signals, the radar systems could detect and track targets that would otherwise be hidden by the curvature of the earth. Each system requires a transmitter site and a receiver

site. The Christmas Valley radar system was built by General Electric beginning in 1986 and the Air Force accepted control of the system in December 1990.

The sites were operated on a 24-hour basis, from November 1990 to January 1991. Following a January 1991 decision to reduce operations, caretaker status was achieved by the end of September 1991 (USAF, 1991). In 2005, the Air Force initiated closure of the Christmas Valley Radar Site by removing all external radar equipment, fences, and computers (USAFCC, 2005 & 2006). Following closure, facility ownership was transferred to the ORARNG. The facility has remained closed and abandoned since ORARNG took over the property in 2010 (**Appendix A**).

#### 1.5 Facility Environmental Setting

Christmas Valley Radar Site is on the relatively flat, dry bed of a large late Pleistocene lake, within the Fort Rock Basin. The Fort Rock Basin stretches from the Cascade Mountain Range in the west to the Owyhee Uplands in the east. The elevation of the facility is approximately 4,300 feet above mean sea level. The site is relatively flat, with only a 4 foot increase in elevation one half mile to the southeast. The area surrounding the radar site is all undeveloped public land that is vegetated by native brush and grasses. There are no trees, surface water, or other terrain features.

#### 1.5.1 Geology

The Fort Rock Basin, part of the greater Oregon Closed Lakes Basin, is made up of Pliocene and Pleistocene age rocks. Much of the basin floor is underlain at shallow depths by the Fort Rock Formation, which is comprised of pyroclastics, diatomite, basaltic agglomerate, and basaltic lava rock types. The facility is situated in the Oregon's geologic province of the High Lava Plains. This area has some of the most recent faulting and youngest volcanic activity in Oregon. No faulting is visible around the facility; however, many northwest trending faults are present in the surrounding hills that enclose the basin. A few miles to the north and east of the facility are large areas of dune sand composed of ash pumice and rock forming minerals, resulting from the eruption of Mount Mazama 7,700 years ago (USGS, 2002). Also found in the area are volcanic parent material consisting of Lacustrine and ash deposits that were ejected from the volcanic eruption.

Formed from silty lake sediments, Christmas Valley is dominated by the Flagstaff soil series, which consist of poorly drained, very fine silt loam over silty clay loam, sodic soils, and underlying hardpans. The surface layer consists of an ashy silt loam, approximately 4 inches thick at 0 to 1 percent slopes, with underlying subsoil of ashy silty clay loam, approximately 8 inches thick. A dense hardpan occurs at a depth of about 14 inches (USDA, 2006).

A small portion of the facility is covered by the Bonnick soil series, consisting of somewhat excessively drained soils formed in gravelly loamy sand weathered from volcanic rocks basalts. Typically, the surface layer consists of very gravelly ashy loamy sand, about 7 inches thick and 0 to 10 percent slope, whereas the subsoil consists of gravelly loamy sand, approximately 13 inches thick. Soils beneath that depth consist of gravelly loamy sand and gravelly coarse sand, to depths over 40 inches. A hardpan layer is present below a depth of 40 inches (USDA, 2006).

#### 1.5.2 Hydrogeology

Christmas Valley Radar Site is on the Pacific Northwest basaltic-rock aquifer system, which is an igneous and metamorphic rock aquifer. Containing unconsolidated deposits of sand and gravel, the aquifer is the most productive and widespread aquifer in Idaho, Oregon, and Washington. Aquifer recharge is through inflow from fractures in bedrock. Discharge is through withdrawals from wells. This aquifer system is a major source of domestic water for local residents. Drinking

water for the town of Christmas Valley is supplied by Christmas Valley Domestic Water Supply. Drinking water within the Christmas Valley Radar Site was historically supplied by four on-site wells; however, the drinking water treatment system for the facility is no longer active. In 2017, Tetra Tech completed drinking water sampling at the facility to evaluate the potential presence of PFAS; PFOA and PFOS were not detected above laboratory method reporting limits in these samples. Currently, all four drinking water wells at this facility are inoperable.

Oregon Water Resources Department maintains State Observation Wells throughout the state of Oregon. Multiple wells are located within Lake County, three of them within 10 miles of the center of the facility. State Wells, at depths of less than 400 feet, include Lake 1210 located 3.5 miles southeast, Lake 673 located 7.5 miles northwest, and Lake 284 located 8.5 miles west of the facility. Groundwater flow direction is unknown; however, depths to groundwater in these surrounding wells vary between 24 and 36 feet below ground surface (Shaw, 2010). This soil has a water table at a depth of 24 to 40 inches (USDA, 2006). According to the Oregon Water Resources Department (OWRD), no potable water wells are currently active at Christmas Valley Radar Site; however, active domestic wells and monitoring wells exist within four miles of the facility (**Figure 1-2**). Based on the USEPA Unregulated Contaminant Monitoring Rule 3 data, it was indicated that no PFAS was detected in a public water system above the USEPA Health Advisory level within 20 miles of the facility.

#### 1.5.3 Hydrology

No perennial or ephemeral streams traverse the Christmas Valley Radar Site, nor are surface drainage patterns apparent within several miles (**Figure 1-3**). According to the USGS, several small wetlands exist throughout the facility; however, based on information obtained during interviews, historical document review, aerial photography, and the low annual precipitation, these wetlands are usually dry and rarely contain water.

The flat terrain results in very slow runoff and a low water erosion hazard. The area is saturated by dry lakebeds. The closest surface water is a lacustrine system of wetlands that sits in a depression 9 miles from the facility. The surface water is present for brief periods during the growing season or rain events, but the water table lies well below the ground surface for most of the season. Regional surface water features include Lake Albert and Lake Summer, part of the Oregon Closed Lake Basin, south of the facility.

#### 1.5.4 Climate

Christmas Valley Radar Site is situated in the High Lava Plains physiographic province of central Oregon. Well-preserved in a high desert climate, volcanic features stand out about the plains. The region experiences hot and dry summers, very cold nights, and winters with snow. The yearly average temperature is 71 degrees Fahrenheit (°F). The high temperature in summers reach above 90°F and winter temperatures reach down to 20°F, respectively (NOAA, 2017). Average rainfall is about 9 inches and snow is about 15 inches per year. According to the Köppen Climate Classification system, Christmas Valley has a warm-summer Mediterranean climate.

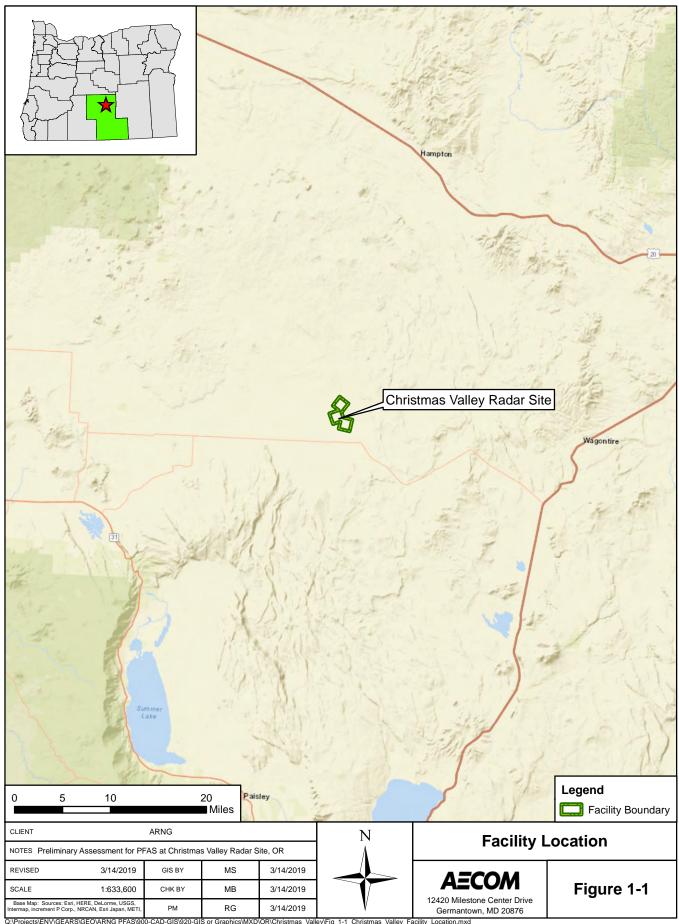
Winds generally are of constant, mild velocities originating from the south-southwest. While some gusting does occur during the spring and summer months, most of the region remains relatively dust-free due to the thick growth of low sagebrush. The ashy soil however is affected by moderate wind erosion.

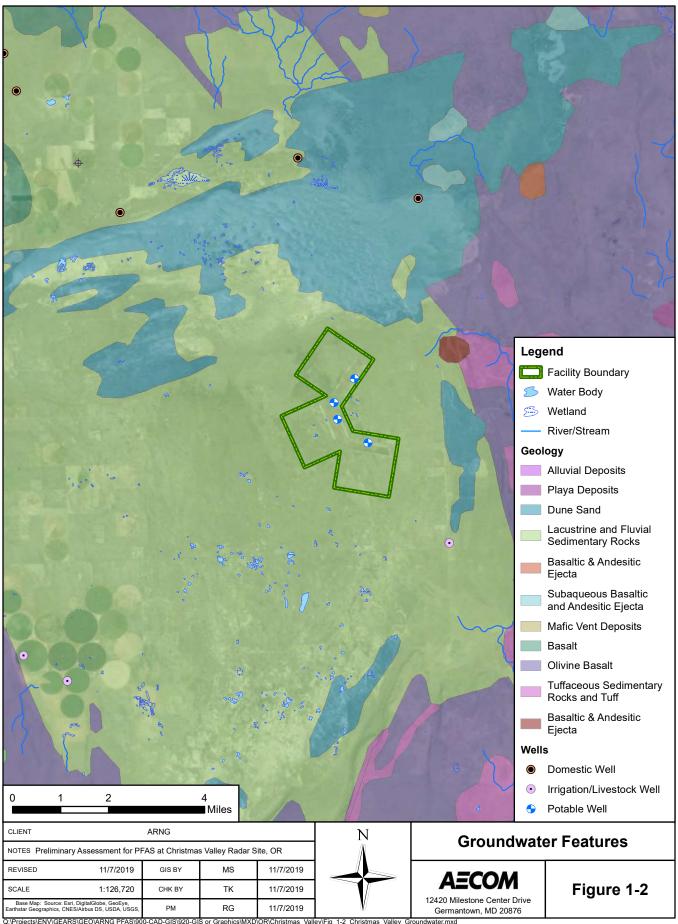
#### 1.5.5 Current and Future Land Use

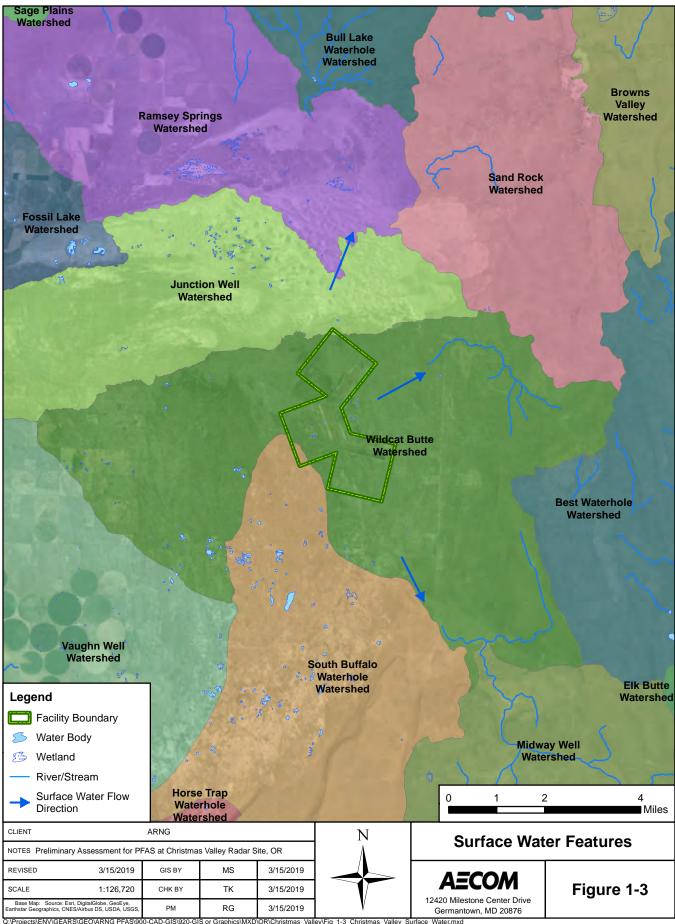
The ORARNG obtained the land deed for Christmas Valley Radar Site in 2010 from the USAF The facility has been closed and abandoned throughout the duration of ORARNG ownership. The

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deed allows for ORARNG to undertake emergency management response uses and training exercises; however, according to interviews, neither of these activities have occurred at the facility during ORARNG operational history. Reasonably anticipated future land use is not expected to change from current land use.







#### 2. Fire Training Areas

No FTAs were identified at the Christmas Valley Radar Site during the PA through interviews or Environmental Data Resource Reports. The facility has been abandoned since ORARNG took control in 2010. There are no full-time staff that are located at this facility and no fire training activities have occurred during ORARNG operational history at this facility.

#### 3. Non-Fire Training Areas

No non-FTAs were identified at Christmas Valley Radar Site. During the PA, interviewees indicated that AFFF was not used, stored and/or released at the facility at any time during ORARNG use and occupancy of the property (**Appendix B**). Additionally, the fire suppression systems previously present at the facility included only halon or water and did not include AFFF or any other PFAS-containing materials.

#### 4. Emergency Response Areas

No emergency response areas were identified within the Christmas Valley facility during the PA through interviews or Environmental Data Resource Reports. Any emergency response services would be handled by the local Christmas Valley Rural Fire Protection District.

#### 5. Adjacent Off-Facility Sources

No potential off-facility sources of PFAS adjacent to the Christmas Valley Radar Site, not under the control of the ORARNG, were identified during the PA through interviews, Environmental Data Resource Reports, or historical document review.

#### 6. Conceptual Site Model

Based on the PA findings from interviews with facility personnel, on-facility observations, review of Environmental Data Resource reports, and online research, no use, release, or storage areas were identified as AOIs at the Christmas Valley Radar Site and no nearby off-facility sources were identified during this PA.

A conceptual site model (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. However, since no PFAS sources were identified to originate at the Christmas Valley Radar Site or from activities associated with the facility, CSMs were not developed.

#### 7. Conclusions

This report presents a summary of available information gathered during the PA on the potential use, storage, or release of AFFF and other PFAS-related activities at Christmas Valley Radar Site (see **Figure 7-1**). The PA findings are based on the information presented in **Appendix A** and **Appendix B**.

#### 7.1 Findings

Based on information obtained during interviews conducted with facility personnel, facility observations, and reviewed documentation, it is confirmed that AFFF has never been stored, used, or released at the Christmas Valley Radar Site since ORARNG took control of the facility; therefore, no AOIs related to PFAS releases were identified. No information was available pertaining to potential historic PFAS-related releases prior to ORARNG taking control of the property.

Interviewee knowledge from ORARNG personnel at the facility and from the Oregon Military Department dates to at least 2010 when the facility came under control of the ORARNG. Evidence obtained during the PA supports that current or former ARNG activities have not contributed to any potential PFAS contamination in soil, groundwater, surface water, or sediment.

#### 7.2 Uncertainties

A number of information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been stored, 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 disposition and use of PFAS in training, firefighting, or other non-traditional activities.

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.

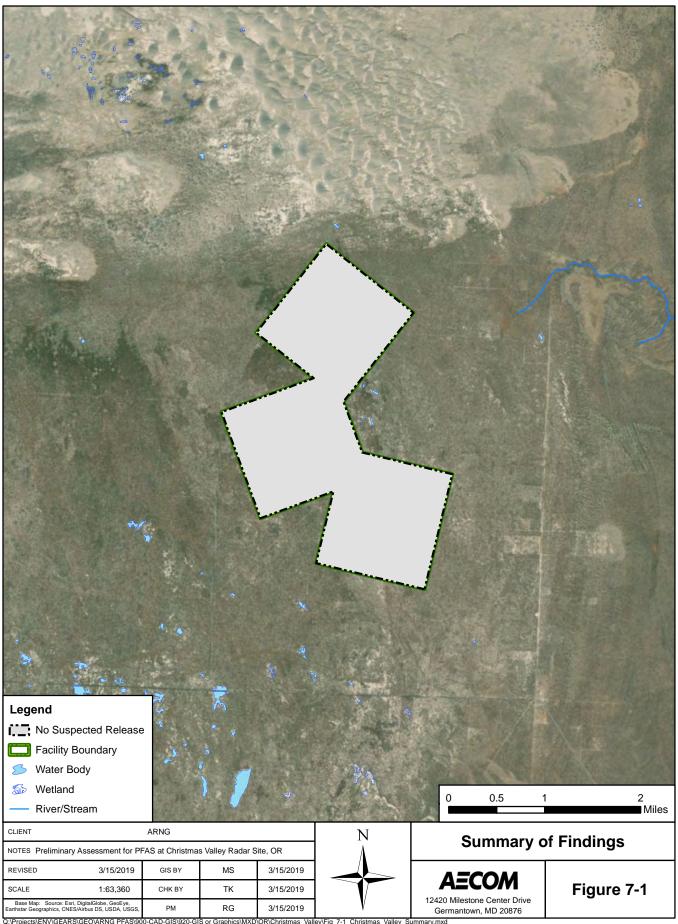
In order to minimize the level of uncertainty, readily available data regarding the use and storage of PFAS were reviewed, current personnel were interviewed, multiple persons were interviewed for the same potential source area, and potential source areas were visually inspected. The uncertainties associated with the PA are summarized in **Table 7-1**.

**Table 7-1: Uncertainties** 

Area	Source of Uncertainty		
Christmas Valley Radar Site	Facility knowledge relating to potential use, storage, or release of AFFF or other PFAS-containing materials before ORARNG took control in 2010 is limited.		

#### 7.3 Potential Future Actions

Based on the documented absence (2010-present) of the use, storage, or release of PFAS-containing materials at Christmas Valley Radar Site, no AOIs were identified during the PA. Evidence does not indicate that current or former ARNG activities contributed PFAS contamination to soil, groundwater, surface water, or sediment at the facility or adjacent areas. Christmas Valley Radar Site will not move forward in the CERCLA process.



#### 8. References

NOAA. 2017. Local Climate Data from Medford, Oregon. Retrieved March 2019, from <a href="https://forecast.weather.gov/MapClick.php?lat=43.23788000000075&lon=-120.6847399999998#.XMMfU">https://forecast.weather.gov/MapClick.php?lat=43.237880000000075&lon=-120.6847399999998#.XMMfU</a> IKq2w

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### Appendix A Data Resources

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Data Resources will be provided separately on CD. Data Resources for Christmas Valley Radar Site include:

#### **Christmas Valley Leases, Licenses, and Permits**

 2009 Quitclaim Deed between the United State General Services Administration and the State of Oregon Military Department

#### **Previous Investigations Completed at the Christmas Valley**

- 2005 Final Environmental Assessment for Equipment Removal at Over-The-Horizon Backscatter Radar – West Coast Facilities
- 2006 Environmental Baseline Survey for Over-The-Horizon Backscatter (OTH-B) Site at Christmas Valley, Oregon, Preliminary Final
- 2010 Phase I Environmental Baseline Survey Over-The-Horizon Backscatter Radar Site Christmas Valley, Oregon

#### **Christmas Valley Installation Maps**

2018 Facility Map

#### **Christmas Valley EDR Report**

2019 Christmas Valley Environmental Data Resource Report

#### M0690124 OCT 19 AM 9:38

#### QUITCLAIM DEED

State of Oregon Lake County

128289

The UNITED STATES OF AMERICA, acting by and through the Administrator of the General Services Administration ("Grantor"), under and pursuant to the powers and authority contained in the provisions of the Property Act (116 Stat. 1062, 40 U.S.C. 553), as amended, and the regulations and orders promulgated thereunder, having an address of General Services Administration, Northwest/ Arctic Region, 400 - 15th Street S.W., Auburn, Washington, 98001, for and in consideration of the use, benefit and maintenance of the Property herein conveyed for use as an emergency management response and training facility, does hereby GRANT, GIVE, REMISE, AND RELEASE, without warranty or representation of any kind or nature, express or implied, unto the Oregon Military Department, a department of the State of Oregon, whose mailing address is 1776 Militia Way, Salem, Oregon 97309 ("Grantee") all such right, title and interest as Grantor has in and to that certain parcel of real property and improvements located at, 94481 Christmas Valley Highway, Christmas Valley, Oregon, 97641 described in (Parcel 1) and an exclusive easement for ingress/egress (Parcel 2), across the retained federal owned land known as the former Air Force, Over the Horizon Back Scatter Radar Site ("Property"), General Services Administration Control Number 10-D-OR-0768, and more particularly described as follows:

PARCEL 1: A parcel of land situated in Sections 19, 30, 31, and 32 of Township 26 South, Range 20 East, all in the Willamette Meridian, Lake County, Oregon and described as follows:

Commencing at the southwest corner of said Section 31; thence north 0°50'01" east along the west line of said Section a distance of 4,682.15 feet; thence continuing along said line north 0°50'01" east, a distance of 18.26 feet; thence north 67°22'48" east, a distance of 5,402.59 feet; thence north 54°09'10" west, a distance of 4,023.04 feet; thence north 35°51'06" east, a distance of 6,213.18 feet; thence south 54°09'28" east, a distance of 5,449.79 feet to the POINT OF BEGINNING; thence continuing along said line south 54°09'28" east, a distance of 650.39 feet; thence south 35°50'47" west, a distance of 6,213.99 feet; thence south 22°36'50" east, a distance of 2,985.54 feet; thence south 78°51'00" east, a distance of 5,087.51 feet; thence south 11°09'00" west, a distance of 1,025.00 feet; thence north 78°51'00 west, a distance of 2,674.99 feet; thence south 11°09'00" west, a distance of 100 feet; thence north 78°51'00" west, a distance of 1,000 feet; thence north 11°09'00" east, a distance of 100 feet; thence north 78°51'00" west, a distance of 1,975 feet; thence north 22°36'50" west, a distance of 1,900 feet; thence south 67°23'08" west, a distance of 100 feet; thence north

22°36'50" west, a distance of 900 feet; thence north 67°23'08" east, a distance of 100 feet; thence north 22°36'50" west, a distance of 1,775 feet; thence north 67°23'08" east, a distance of 1,504.66 feet; thence north 35°50'47" east, a distance of 1,866.40 feet; thence north 54°09'28" west, a distance of 100 feet; thence north 35°50'47" east, a distance of 800 feet; thence south 54°09'28" east, a distance of 100 feet; thence north 35°50'47" east, a distance of 2,600 feet to the POINT OF BEGINNING: Containing approximately 326 acres, more or less.

SUBJECT TO those rights for power line purpose granted to Midstate Electric Cooperative, Inc. or its successors or assigns, by right-of-way No.-43668, pursuant to the Act of October 21, 1976, (43 U.S.C. 1761) as to those lands described in the right-of-way grant located within the above described lands of lots 15,18, 19, 25 thru 30, of Section 30, and lots 3,14,15,17 thru 19, 29 and 30 of section 31, T.26 S. R, 20E and Lots 6,7,13,14,24,25,27, and 28 of section 6, T.27 S.,R.20 E. Willamette Meridian

SUBJECT TO those rights for telecommunication purpose granted to CenturyTel of Eastern Oregon, Inc., of its successors or assigns, by right-of-way No.OR-39970, pursuant to the Act of October 21, 1976, (43 U.S.C. 1761) as to those lands described in the right-of-way grant located within the above described lands of lots 27, 28, and 29 of section 30, and lots 5, 6, 7, and 8, of section, T 26., R., E Willamette Meridian

Parcel 2: An exclusive easement used for ingress /egress across remaining Federal owned radar site lands from the BLM non exclusive right of way situated in Sections 30 and 31 of Township 26 South, Range 20 East, all in the Willamette Meridian, Lake County, Oregon; said parcel being that portion of said property contained within a strip of land 30 feet wide, being 15 feet on each side of the following described centerline:

Beginning at a point which lies 4,152.50 feet north and 22.32 feet east of the southwest corner of Section 36; thence north 42°45'46" east, 260 feet; thence north 57°11'01" east, 282.50 feet; thence north 68°04'49" east, 4,250.00 feet; thence north 79°51'44" east, 150.00 feet; thence south 97°15'05" east, 675.00 feet, more or less.

Pursuant to authority contained in the Property Act, and applicable rules, regulations and orders promulgated thereunder, the Grantor determined the Property to be surplus to the needs of the United States of America and available for conveyance to Grantee. It is understood and agreed by and between the Grantor and Grantee that Grantee by acceptance of this deed does acknowledge that it fully understands the terms and conditions set forth herein and does further covenant and agree for itself and its successors and assigns forever, as follows:

The Property is conveyed subject to any and all existing reservations, easements, restrictions, covenants, and rights, recorded or unrecorded, including those for roads, highways, streets, railroads, power lines, telephone lines and equipment, pipelines, drainage, sewer and water mains and lines, public utilities, and rights-of-way, and including but not limited to any easements, reservations, rights, and covenants described herein; any state of facts that would be disclosed by a physical examination of the Property; any state of facts that an accurate and adequate survey of the Property would disclose; and any and all other matters of record.

FAA CLAUSE: The air space above the property is restricted by the Federal Aviation Administration (FAA) for military flight training as low as 300 feet above the property, 24 hours a day seven days a week. Any development is limited to elevation below the 300 Foot flight deck and **GRANTEE** is put on notice regarding the load noise from the aircraft training operations in the area. By acceptance of this deed **GRANTEE** herein named and its successors, and assigns and every successor in interest to the property herein described, or any part thereof, covenant that any construction or alteration is prohibited unless a determination of no hazard to air navigation is issued by the Federal Aviation Administration in accordance with Title 14 code of Federal Regulations, Part 77, entitled "Objects Affecting Navigable Airspace," or under the authority of the Federal Aviation Act of 1958, as amended.

NON-DESCRIMINATION CLAUSE: The Grantee covenants for itself, its heirs, successors, and assigns and every successor in interest to the Property hereby conveyed, or any part thereof, that the said Grantee and such heirs, successors, and assigns shall not discriminate upon the basis of race, color, religion, national origin, or sex in the use, occupancy, sale or lease of the Property or in their employment practices conducted thereon. This covenant shall not apply however, to the lease or rental of a room or rooms with a family dwelling unit, nor shall it apply with respect to religion to premises used primarily for religious purposes. The United States of America shall be deemed a beneficiary of this covenant without regard to whether it remains the owner of any land or interest therein in the locality of the Property hereby conveyed and shall have sole right to enforce this covenant in any court of competent jurisdiction. Any owner of the Property (or any portion thereof) that violates this covenant shall be liable for its own acts, and the Seller agrees that others in the chain of title are not responsible for violation of this covenant by anyone other than themselves during their ownership of any portion of the Property.

CONDITION OF PROPERTY: The Grantee, in accepting this Quitclaim Deed, acknowledges and attests that it has inspected, is aware of, and accepts the condition and state of repair of the Property. It is understood and agreed that the Property is conveyed 'as is' and 'where is' without any representation, warranty or guarantee of any kind or nature, express or implied, including, without limitation, any representation, warranty or guarantee as to quantity, quality, character, condition, size, or kind, or that the same is in any particular condition or fit to be used for any particular purpose. The Grantee, in accepting this Quitclaim Deed, acknowledges that the Grantor has made no representation or warranty concerning the condition or state of repair of the Property that has not been fully set forth in this Quitclaim Deed.

NOTICE & COVENANT REGARDING HAZARDOUS SUBSTANCE ACTIVITY: Pursuant to 40 CFR 373.2 and Section 120(h)(3)(A)(i) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (CERCLA)(42 U.S.C. 9620 (h)(3)(A)(i)), and based upon a complete search of agency files, the United States gives notice that no hazardous substances have been released or disposed of or stored for one year or more on the Property.

CERCLA covenant: Grantor warrants that all remedial action necessary to protect human health and the environment has been taken before the date of this conveyance. Grantor warrants that it shall take any additional response action found to be necessary after the date of this conveyance regarding hazardous substances located on the Property on the date of this conveyance.

- (1) This covenant shall not apply: (a) in any case in which Grantee, its successors or assigns, or any successor in interest to the Property or part thereof is a Potentially Responsible Party with respect to the Property immediately prior to the date of this conveyance; or (b) to the extent that such additional response action or part thereof found to be necessary is the result of an act or failure to act of the Grantee, its successors or assigns, or any party in possession after the date of this conveyance that either: (i) results in a release or threatened release of a hazardous substance that was not located on the Property on the date of this conveyance; or (ii) causes or exacerbates the release or threatened release of a hazardous substance the existence and location of which was known and identified to the applicable regulatory authority as of the date of this conveyance.
- (2) In the event Grantee, its successors or assigns, seeks to have Grantor conduct any additional response action, and, as a condition precedent to Grantor incurring any additional cleanup obligation or related expenses, the Grantee, its successors or assigns, shall provide Grantor at least 45 days written notice of such a claim. In order for the 45-day period to commence, such notice must include credible evidence that:
  (a) the associated contamination existed prior to the date of this conveyance; and (b) the need to conduct any additional response action or part thereof was not the result of any act or failure to act by the Grantee, its successors or assigns, or any party in possession.

Reservation of Right of Access: Grantor reserves a right of access to all portions of the Property for environmental investigation, remediation or other corrective action. This reservation includes the right of access to and use of available utilities at reasonable cost to Grantor. These rights shall be exercisable in any case in which a remedial action, response action or corrective action is found to be necessary after the date of this conveyance, or in which access is necessary to carry out a remedial action, response action, or corrective action on adjoining property. Pursuant to this reservation, the United States of America, and its respective officers, agents, employees, contractors and subcontractors shall have the right (upon reasonable advance written notice to the record title owner) to enter upon the Property and conduct investigations and surveys, to include drilling, test-pitting, borings, data and records compilation and other activities related to environmental investigation, and to carry out remedial or removal actions as required or necessary, including but not limited to the installation and operation of monitoring wells, pumping wells, and treatment facilities. Any such entry, including such activities, responses or remedial actions, shall be coordinated with record title owner and shall be performed in a manner that minimizes interruption with activities of authorized occupants.

LEAD PAINT: The improvements on the Property may contain lead-based paint. By acceptance of the Quitclaim Deed, the Grantee acknowledges that it has been afforded an opportunity to inspect the Property and to test for evidence of lead-based paint. Grantee acknowledges that Grantor shall have no liability for the removal of lead-based paint, nor for any damage or injury related to the existence of lead-based paint on the Property. Grantee shall be responsible for compliance with all applicable Federal, state and/or local laws, ordinances, orders and regulations relating to lead-based paint, including, if required, taking steps for its removal.

ASBESTOS: The Grantee, by acceptance of this Quitclaim Deed, acknowledges that it has been informed by Grantor that the Property may contain asbestos-containing

materials, and that Grantee has been provided with the following notice and warning by Grantor. Grantee, by acceptance of this Quitclaim Deed, acknowledges that it accepts the transfer and Quitclaim Deed of the Property subject to the terms and conditions contained herein:

- a) The Grantee is warned that the Property may contain asbestos-containing materials. Asbestos is a hazardous material. Unprotected exposure to asbestos fibers has been determined to significantly increase the risk of cancer, mesothelioma, and asbestosis. These diseases can cause serious bodily harm resulting in disability or death.
- b) The Grantee is deemed to have relied solely on its own judgment in assessing the overall condition of all or any portion of the Property including any asbestos hazards or concerns.
- c) No warranties express or implied, are given with regard to the condition of the Property including, without limitation, whether the Property does or does not contain asbestos or is or is not safe for a particular purpose. The failure of Grantee to have inspected or to be fully informed as to the condition of all or any portion of the Property shall not constitute grounds for any claim or demand against Grantor.
- d) The description of the Property as set forth herein, and any other information provided to the Grantee with respect to the Property was based on the best information available to the General Services Administration's Property Disposal Division and is believed to be correct, but any error or omission shall not constitute grounds or reason for any claim by Grantee against Grantor, including, without limitation, any claim for allowance, refund or deduction from the purchase price for such Property.
- e) Grantor assumes no liability for damages for personal injury, illness, disability or death to Grantee or to Grantee's employees, invitees, or any other person subject to Grantee's control or direction, or to any other person, including members of the general public, arising from or incident to the purchase, transportation, removal, handling, use, disposition, or other activity causing or leading to contact of any kind whatsoever with asbestos on the Property.
- f) Grantee further agrees by acceptance of this Quitclaim Deed that, in its use and occupancy of the Property, it will comply with all Federal, state, and local laws, ordinances, orders and regulations relating to asbestos.

**RESTRICTIONS ON USE**: The Grantee understands that the Property is being transferred pursuant to 40 U.S.C. Sec 553 for emergency management response use and agrees that the Property will be used and maintained as emergency management response facility in perpetuity, and that in the event the Property ceases to be used or maintained as an emergency management facility, all or any portion of the property may, in its then existing condition, at the option of the Grantor, be reverted to the Grantor.

Grantee shall submit annual compliance statements to the Grantor and to FEMA or its successor agency as directed by the Government.

- a. The Administrator of the General Services Administration is responsible for enforcing compliance with the terms and conditions of this conveyance. The Grantor is also responsible for reforming, correcting, or amending this deed or any other document related to this conveyance; granting releases; or any action necessary for recapturing the Property following the provisions of the Act.
- b. There shall be periodic inspections of the Property to ensure compliance with the terms and conditions of this Quitclaim Deed by the Grantor and FEMA. Should either agency discover any information indicating a change in use of the Property, that agency shall notify the other agency and, upon request, make a determination of continued appropriateness of the use of the Property.
- c. After receiving a statement from FEMA that title to the Property is proposed for reverting, the Grantor will review the statement and determine, in consultation with FEMA, if title should be reverted.
- d. The Grantee must provide protection and maintenance for the Property until such time as the title reverts to the Grantor, including the period of any notice of intent to revert. Such protection and maintenance must, at a minimum, conform to the standards prescribed in the GSA Customer Guide to Real Property Disposal.

In the event there is a breach of any of the conditions and covenants herein contained by the Grantee, its successors and assigns, whether caused by the legal or other inability of the Grantee, its successors and assigns, to perform said conditions and covenants, or otherwise, all right, title and interest in and to the Property shall revert to and become the property of the Grantor at its option which, in addition to all other remedies for such breach, shall have the right of entry upon Property, and the Grantee, its successors and assigns, shall forfeit all right, title and interest in Property and in any and all of the tenements, hereditaments and appurtenances thereunto belonging; provided, however, that the failure of the Administrator of the General Services Administration to require, in any one or more instances, complete performance of any of the conditions or covenants shall not be construed as a waiver or relinquishment of such future performance, but the obligation of the Grantee, its successors and assigns, with respect to such future performance shall continue in full force and effect.

**TO HAVE AND TO HOLD** the Property with all privileges and appurtenances thereunto belonging to said Grantee.

IN WITNESS WHEREOF, the UNITED STATES OF AMERICA, acting by and through the Administrator of the General Services Administration has caused these presents to be duly executed for and in its name and behalf by I Blaine Hastings, Manager; Real Property Field Office, General Services Administration, Northwest/Arctic Region who has this day of September 2009 hereunto set his hand and seal.

#### UNITED STATES OF AMERICA

By and through the Administrator of the

General Services Administration

1 Blaine Hastings, Manger. Real Property Disposal Office General Services Administration

Auburn, Washington

#### STATE OF WASHINGTON **COUNTY OF KING**

day of Some Mod, 2009, before the undersigned, a Notary Public in and for the State of Washington, personally appeared Blaine Hastings, to me known to be the Director. Real Property Disposal Office, Auburn, General Services Administration, and to me known to be the individual described in and who executed the foregoing instrument and who under oath stated that he was duly authorized, empowered, and delegated by the Administrator of General Services to execute the said instrument and acknowledged the foregoing instrument to be his free and voluntary act and deed, acting for and on behalf of the Administrator of General Services, acting for and on behalf of the United States of America, for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate above written.

Notary Public in and for the State of Washington, residing in Enumclaw

Commission Expires

ACCEPTANCE By acceptance of this deed the Grantee is agreeing to all the terms an conditions of the deed as regards the transfer and use of the of approximately 326 acres land and improvements of the former Air Force, Over the Horizon Back Scatter Radar, at Christmas Valley, Oregon being transferred pursuant to 40 U.S.C. Sec 553 for emergency management response use.

Oregon Military Department, a department of the State of Oregon does accept this Quitclaim Deed and by such acceptance agrees to all of the terms and conditions thereof.

Executed this 28th day of Soplanter, 2009

Raymond F, Rees, Maj. Gen.

The Adjutant General

Oregon Military Department

1776 Militia Way

Salem, Oregon 97309-5047

STATE OF OREGON	)	M0690131
	) ss.	
County of Marion	)	

On this At day of September, 2009, before me personally appeared Raymond F. Rees, Major General, who being duly sworn stated that he is the Adjutant General of the Oregon Military Department, and acknowledged the foregoing instrument to be the voluntary act of the Department, and that he executed the foregoing instrument on behalf of the Department, acting under the authority granted to him by the Oregon Legislature.

OFFICIAL SEAL
TERRILYN A KROEKER
NOTARY PUBLIC-OREGON
COMMISSION NO. 413787
MY COMMISSION EXPIRES FEB. 19, 2011

Notary Public for Oregon
My Commission expires: Feb 19, 20//

Return to: State of Oregon, Oregon Military Dept. Att: Arthur Arrago - Installation Division you Box 14350 Jalem, A. 97309

#### **Final**

## ENVIRONMENTAL ASSESSMENT FOR EQUIPMENT REMOVAL AT OVER-THE-HORIZON BACKSCATTER RADAR - WEST COAST FACILITIES



U.S. Air Force Air Combat Command

July 2005

#### ACRONYMS AND ABBREVIATIONS

ACC ACHP AFB AFH AFI AFOSH AICUZ Air Force AMP AQCR AUM BLM BMPs CAA CEQ	Air Combat Command Advisory Council on Historic Preservation Air Force Base Air Force Handbook Air Force Instruction Air Force Occupational Safety and Health Air Installation Compatible Use Zone United States Air Force Allotment Management Plan Air Quality Control Region animal unit month U.S. Bureau of Land Management Best Management Practices Clean Air Act Council on Environmental Quality	MOA MSL NAAQS NEI NEPA NHPA NO <sub>2</sub> NO <sub>x</sub> NORAD NPDES NRHP NRIS O <sub>3</sub>	Memorandum of Agreement mean sea level National Ambient Air Quality Standards National Emissions Inventory National Environmental Policy Act National Historic Preservation Act nitrogen dioxide nitrogen oxide North American Aerospace Defense Command National Pollutant Discharge Elimination System National Register of Historic Places National Register Information System ozone
CERCLA	Comprehensive Environmental Response,	OSHA	Occupational Safety and Health
	Compensation, and Liability Act		Administration
CFR	Code of Federal Regulations	OTH-B	Over-the-Horizon Backscatter Radar
CNDDB	California Natural Diversity Database	P.L.	Public Law
CO	carbon monoxide	Pb	lead
CRMP	Cultural Resource Management Plan	PCB	polychlorinated biphenyl
CWA	Clean Water Act	PM10	particulate matter equal to or less than 10
dB	decibel	D) (	micrometers in diameter
dBA	A-weighted decibel	$PM_{2.5}$	particulate matter equal to or less than 2.5
DNL	Day-Night Average Sound Level		micrometers in diameter
DoD	Department of Defense	ppm	parts per million
DRMO	Defense Reutilization and Marketing	RCRA	Resource Conservation and Recovery Act
DD1 60	Office	RMP	Resource Management Plan
DRMS	Defense Reutilization and Marketing	ROI	region of influence
	Service	SAFO	Secretary of the Air Force Order
EA	environmental assessment	SHPO	State Historic Preservation Office
EIAP	environmental impact analysis process	SIP	State Implementation Plan
EIS	Environmental Impact Statement	$SO_2$	sulfur dioxide
EO	Executive Order	SR	State Route
EPCRA	Emergency Planning and Community	SWPPP	Storm Water Pollution Prevention Plan
	Right-to-Know Act	U.S.	United States
ERP	Environmental Restoration Program	USACE	United States Army Corps of Engineers
ESA	Endangered Species Act	USC	United States Code
FONSI	Finding of No Significant Impact	USEPA	United States Environmental Protection
FY	Fiscal Year		Agency
IICEP	Interagency and Intergovernmental	USFS	United States Forest Service
	Coordination for Environmental Planning	USFWS VOC	United States Fish and Wildlife Service volatile organic compound

#### FINDING OF NO SIGNIFICANT IMPACT

#### NAME OF THE PROPOSED ACTION

Equipment Removal at Over-the-Horizon Backscatter Radar (OTH-B) - West Coast Facilities

#### DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

The USAF, HQ Air Combat Command proposes to disassemble 549 metal antenna structures, 717 acres of metal ground screen and 115,764 linear feet of wood fence and posts from the Tulelake, California, and Christmas Valley, Oregon, radar sites. At the transmitter site in Christmas Valley, Oregon, 45 miles of 3-to 6-inch diameter copper wave-guide tubes and balun domes would also be removed. Existing access roads, water systems, electrical lines and buildings would not be disturbed at either radar site. Under Alternative One, the Air Force would remove only the items directly related to the operation of the radar system, and only the wood perimeter fence and posts would remain in place. Under the No Action Alternative both sites would continue to remain in caretaker status.

#### **SUMMARY OF ENVIRONMENTAL CONSEQUENCES**

Proposed Action: This Environmental Assessment (EA) provides an analysis of the potential environmental consequences associated with the Proposed Action and the Alternatives. Five resource categories received a thorough evaluation to identify potential environmental consequences. Several resources were not evaluated in this EA because it was determined that implementation of the Proposed Action or Alternatives is unlikely to affect them. These resources include Airspace, Land Use, Water Resources, Safety and Occupational Health, Hazardous Materials and Waste Management, and Socioeconomics and Environmental Justice. As indicated in Chapter 4.0, neither the Proposed Action nor the Alternatives would result in significant impacts to any resource area.

Air Quality: Equipment removal-related air emissions would be generated with the implementation of the Proposed Action or Alternative One at both OTH-B sites and within the region with the hauling of equipment from both OTH-B sites and from other earth-disturbing activities. These emissions would be less than 1 percent of emissions in the Air Quality Control Regions (AQCR). Lake County, Oregon is a moderate non-attainment area for  $PM_{10}$  and Modoc County is in attainment with all national ambient air quality standards. Neither the Proposed Action nor Alternative One would contribute  $PM_{10}$ -related emission above United States Environmental Protection Agency (USEPA) established de minimis levels for  $PM_{10}$ . Therefore, a formal air quality conformity determination is not required.

Cultural Resources: Equipment removal activities are not expected to impact archaeological or traditional resources under the Proposed Action or Alternative One. If resources are inadvertently discovered during equipment removal, all work would halt at that location, the ACC Cultural Resource Manager would be notified, and proper procedures for the discovery of unanticipated resources would be completed prior to work resuming. Consultation with the State Historic Preservation Offices (SHPO), in compliance with Section 106 of the National Historic Preservation Act (NHPA) (16 U.S.C. §470 et seq.) with its implementing regulations (36

C.F.R. Parts 60, 63, and 800) is being initiated by the Air Force and will be concluded prior to the commitment of any resources prejudicing the selection of alternatives.

Biological Resources: Equipment removal activities under the Proposed Action or Alternative One would have no significant adverse effects to individual species or native plants or animals because the only plant or animal species likely to be displaced are individuals of common and locally abundant species. No impacts are anticipated to wetlands because there are no wetlands within the project footprints. No threatened, endangered, or special species or communities would be adversely affected by the Proposed Action or Alternative One. Incidentally occurring listed, proposed, or candidate species are not likely to be adversely affected because no critical habitat exists on either site. No significant adverse environmental consequences are anticipated from the equipment removal activities.

Grazing: Equipment removal activities are not expected to have significant adverse effects to grazing activities with the implementation of the Proposed Action and Alternative One at the Tulelake, California, and Christmas Valley, Oregon, radar sites. Removal of the wooden perimeter fence at the Tulelake, California site would adversely impact the grazing permittees as the fences currently serve as allotment fence boundaries. At the Christmas Valley site, fence removal would allow cattle from adjoining property to graze on the site. Replacement of the fence would not be the responsibility of the Air Force; however the Air Force will work with the United States Forest Service and their grazing permittee(s) to coordinate the timing of the fence removal in order to limit the amount of disturbance to grazing operations.

Geology and Soils: Fence and equipment removal activities under the Proposed Action would have no significant adverse impact with respect to geology and soils in the vicinity of the project sites. Fence and equipment removal would expose and disturb on-site soils, resulting in temporary exposure to wind and water erosion. Potential erosion-induced sedimentation of local water resources at the Christmas Valley site would be minimal due to a lack of drainages or creeks in the vicinity of the site. Potential erosion-induced sedimentation of local drainages, creeks, and regional lakes may occur at the Tulelake site. However, in accordance with National Pollutant Discharge Elimination System (NPDES) permit regulations, all activities would be completed in accordance with a Storm Water Pollution Prevention Plan (SWPPP), which would include incorporation of standard construction practices, such as construction of silt fences and temporary stormwater debris basins. Potential short-term wind erosion would be minimized through water application during and immediately following dismantling activities. Revegetation upon completion of equipment dismantling would prevent long-term wind- and water-induced soil erosion.

**No Action Alternative:** Under the No Action Alternative, equipment removal would not take place and both sites would remain in caretaker status. No significant environmental consequences would occur.

Cumulative Effects: Implementation of the Proposed Action or the Alternatives is independent of the decision to restore and dispose of the transmitter and receiver radar sites currently leased from the Bureau of Land Management and the United States Forest Service. The equipment removal addressed in this EA does not preclude any alternatives for addressing restoration and disposition of the radar sites. There are no known actions proposed within the study area that

would interact with the Proposed Action and lead to significant environmental consequences when considered along with the equipment removal at either of the radar sites.

**Public Involvement:** Through the process of Interagency and Intergovernmental Coordination for Environmental Planning (IICEP), the Air Force requested concerned federal, state, and local agencies provide their input in March 2005 on the potential environmental impacts of this proposal. The Air Force published public notices in the *Klamath Falls Herald and News* on May 8, 2005 and in the *Modoc County Record* on May 12, 2005, announcing the availability of the Draft EA for a 30-day public review in local libraries and on the internet at www.cevp.com. Copies of the Draft EA were distributed to the California State Clearinghouse agency as the Single Point of Contact for federal facilities to allow for review by the appropriate state and local agencies, to the Oregon Department of Environmental Quality and to other interested agencies and public. Comments received on the Draft EA are included in Appendix B and the text of the Final EA has been modified in response to the comments.

#### **CONCLUSION**

Based on the analysis described in the Environmental Assessment, which is hereby incorporated by reference, I find neither the Proposed Action, the Alternative action or the No Action alternative will significantly impact the environment. Therefore, issuance of a Finding of No Significant Impact (FONSI) is warranted, and an environmental impact statement is not required.

GREGORY A. CUMMINGS

Lt Col, USAF

Deputy Chief, Programs Division

3 AUGUST 2005

DATE



### **Final**

# ENVIRONMENTAL ASSESSMENT FOR EQUIPMENT REMOVAL AT OVER-THE-HORIZON BACKSCATTER RADAR - WEST COAST FACILITIES

U.S. Air Force Air Combat Command

July 2005

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Final EA Equipment Removal at OTH-B West Coast Radar Site

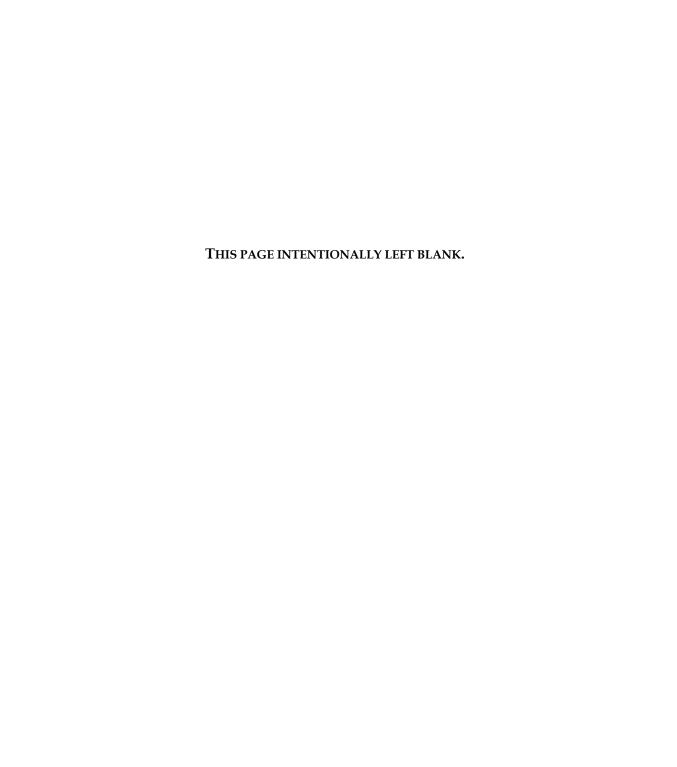
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Final EA Equipment Removal at OTH-B West Coast Radar Site

#### **EXECUTIVE SUMMARY**

This Environmental Assessment (EA) describes the potential environmental consequences resulting from a proposal to remove radar equipment and fences from the Over-the-Horizon Backscatter (OTH-B) West Coast Radar sites in Christmas Valley, Oregon and Tulelake, California.

#### ENVIRONMENTAL IMPACT ANALYSIS PROCESS

This EA has been prepared by the United States Air Force (Air Force), Air Combat Command (ACC) in accordance with the requirements of the National Environmental Policy Act (NEPA) of 1969, (42 United States Code [USC] 4321-4347), Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA (40 Code of Federal Regulations [CFR] §§ 1500-1508), and 32 CFR Part 989, et seq., Environmental Impact Analysis Process (formerly known as Air Force Instruction [AFI] 32-7061).

#### PURPOSE AND NEED FOR ACTION

The purpose of this action is to remove external radar equipment from the OTH-B West Coast Radar sites in Christmas Valley, Oregon, and Tulelake, California, that is no longer needed and maintain the remaining facilities in caretaker status. Contractors working with the Defense Reutilization and Marketing Office/Defense Reutilization and Marketing Service (DRMO/DRMS) are available to remove the radar equipment at a substantial cost savings to the Government. Prices for scrap metal are currently at a high level and immediate action would provide a substantial return to the Government for components that have outlived their useful life.

#### PROPOSED ACTION AND ALTERNATIVES

The Proposed Action consists of the disassembly of a total of 549 metal antenna structures, 717 acres of metal ground screen, and 115,764 linear feet of wood fence and posts from the Tulelake, California and Christmas Valley, Oregon radar sites. At the radar transmitter site in Christmas Valley, Oregon, 45 miles of 3- to 6-inch diameter copper wave-guide tube and balun domes would also be removed. Existing access roads, water systems, electrical lines and buildings would not be disturbed at either radar site.

Under Alternative One, the Air Force would remove only the items directly related to the operation of the radar system, which includes 45 miles of copper wave-guide tube and balun domes, 717 acres of ground screens, and 549 metal antenna structures. The 115,764 linear feet of wood perimeter fence and posts would remain in place.

Under the No Action Alternative both radar sites would continue to remain in caretaker status.

Executive Summary ES-1

#### SUMMARY OF ENVIRONMENTAL CONSEQUENCES

This EA provides an analysis of the potential environmental consequences from the activities associated with the Proposed Action and the Alternatives. Five resource categories, identified in the following text, received a thorough evaluation to identify potential environmental consequences. Several resources were not evaluated in this EA because it was determined that implementation of the Proposed Action or Alternatives is unlikely to affect them. These resources include Airspace, Land Use, Water Resources, Safety and Occupational Health, Hazardous Materials and Waste Management, and Socioeconomics and Environmental Justice. As indicated in Chapter 4.0, the radar equipment removal would not result in significant impacts to any of these resource areas.

*Air Quality:* Equipment removal-related air emissions would be generated with the implementation of the Proposed Action or Alternative One at both OTH-B sites and within the region with the hauling of equipment from both OTH-B sites and from other earth-disturbing activities. These emissions would be less than 1 percent of emissions in the Air Quality Control Region (AQCR) for both Christmas Valley, Oregon and Tulelake, California. Lake County, Oregon is a moderately non-attainment area for PM<sub>10</sub>; however, either the Proposed Action or Alternative One would not contribute PM<sub>10</sub>-related emission above United States Environmental Protection Agency (USEPA) established de minimis levels for PM<sub>10</sub>. Therefore, a formal air quality conformity determination is not required.

Cultural Resources: Equipment removal activities are not expected to impact archaeological or traditional resources under the Proposed Action or Alternative One. If resources are inadvertently discovered during equipment removal, all work would halt at that location, the ACC Cultural Resource Manager would be notified, and proper procedures for the discovery of unanticipated resources would be completed prior to work resuming. Consultation with the State Historic Preservation Offices (SHPO), in compliance with Section 106 of the National Historic Preservation Act (NHPA) (16 U.S.C. §470 et seq.) with its implementing regulations (36 CFR. Parts 60, 63, and 800) is being initiated by the Air Force and will be concluded prior to the commitment of any resources prejudicing the selection of alternatives.

Biological Resources: Equipment removal activities under the Proposed Action or Alternative One would have no significant adverse effects to individual species or native plants or animals since the only plant or animal species likely to be displaced are individuals of common and locally abundant species. No impacts are anticipated to wetlands because there are no wetlands within the project footprints. No threatened, endangered, or special species or communities would be adversely affected by the Proposed Action or Alternative One. Incidentally occurring listed, proposed, or candidate species are not likely to be adversely affected because no critical habitat exists on either of the Christmas Valley, Oregon and Tulelake, California sites. No significant adverse environmental consequences are anticipated from the equipment removal activities.

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*Grazing:* Equipment removal activities are not expected to have significant adverse effects to grazing activities with the implementation of the Proposed Action and Alternative One at the Tulelake, California and Christmas Valley, Oregon radar sites. Removal of the wooden perimeter fence, under the Proposed Action, would adversely impact the grazing permittees as the fence currently serve as the grazing allotment boundary fence at the Tulelake, California site. At the Christmas Valley site, fence removal would allow cattle from adjoining property to graze on the site. Replacement of the fence would not be the responsibility of the Air Force; however the Air Force will work with the United States Forest Service and their grazing permittee(s) to coordinate the timing of the fence removal in order to limit the amount of disturbance to grazing operations.

Geology and Soils: Fence and equipment removal activities under the Proposed Action or Alternative One would have no significant adverse impact with respect to geology and soils in the vicinity of the project sites. Fence and equipment removal would expose and disturb on-site soils, resulting in temporary exposure to wind and water erosion. Potential erosion induced sedimentation of local water resources at the Christmas Valley, Oregon site would be minimal due to a lack of drainages or creeks in the vicinity of the site, which is located in a dry lake bed. However, potential erosion induced sedimentation of local drainages, creeks, and regional lakes may occur at the Tulelake site. However, in accordance with National Pollutant Discharge Elimination System (NPDES) permit regulations, all activities would be completed in accordance with a Storm Water Pollution Prevention Plan (SWPPP), which would include incorporation of standard construction practices, such as construction of silt fences and temporary stormwater debris basins. Potential short-term wind erosion would be minimized through water application during and immediately following dismantling activities. In addition, revegetation and weed control upon completion of equipment dismantling would prevent long-term wind- and water-induced soil erosion. Therefore, no significant impacts would occur.

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Final EA Equipment Removal at OTH-B West Coast Radar Site

ES-4 Executive Summary

#### 1.0 PURPOSE AND NEED FOR ACTION

#### 1.1 INTRODUCTION

The United States Air Force (Air Force) proposes to remove equipment from the Over-the-Horizon Backscatter (OTH-B) West Coast Radar system in order to take advantage of favorable conditions in the labor and scrap metal markets. This environmental assessment (EA) has been prepared to analyze the potential environmental consequences associated with the Proposed Action and Alternatives in accordance with the requirements of the National Environmental Policy Act (NEPA) of 1969 (42 United States Code [USC] 4321 *et seq.*). This document was prepared in accordance with regulations established by the Council on Environmental Quality (CEQ) (40 Code of Federal Regulations [CFR] 1500-1508) and 32 CFR Part 989, et seq., *Environmental Impact Analysis Process (formerly known as Air Force Instruction [AFI]* 32-7061.

Section 1.2 provides background information that briefly describes the OTH-B West Coast Radar System. The purpose and need for the Proposed Action are described in Section 1.3. A detailed description of the Proposed Action and the Alternatives is provided in Chapter 2.0. Chapter 3.0 describes the existing conditions of various environmental resources that could be affected if the proposal were implemented. Chapter 4.0 describes how those resources would be affected by implementation of the Proposed Action or the Alternatives. Chapter 5.0 addresses the cumulative effects of the Proposed Action, as well as other recent past, current, and future actions that may be implemented in the region of influence (ROI) for the Proposed Action.

#### 1.2 BACKGROUND

The OTH-B radar system was developed in the early 1970s to provide all-altitude, long-range surveillance of aerial approaches to the United States. Two OTH-B radar systems were constructed, one system each on the West and East Coasts. Each system included transmitter, receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing radar waves and return signals, enabling the system to detect and track targets that would otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles. Processed data was communicated from the receiver location to the operations site for correlation with known aircraft positions. The OTH-B radar system was built by General Electric (GE) beginning in 1986. The Air Force accepted control of the system in December 1990. In 1991 just months after being put into place, the West Coast site reduced its activities to caretaker status.

The OTH-B West Coast Radar system currently includes sites located in California and Oregon as shown in Figure 1-1. The receiver site, located near Tulelake, California, is leased from the U.S. Forest Service (USFS), Doublehead Ranger District, and is in the Rimrock Lake area. The facility consists of three sectors of antennae situated on approximately 2,800 acres. Each sector supports an antenna array 8,000 feet long comprised of a line of 134 steel towers 65 feet high and about 60

feet apart with a 65 foot-high back screen (see Appendix A – Photograph 1). The antenna array consists of a set of elements, the tower and stay, and a ground screen (see Appendix A – Figure A-1). The ground screen extends out approximately 700 feet in front of the arrays, entirely above the ground surface, along their entire length. It is estimated the ground screen covers approximately 462 acres (154 acres per array). The receiver also has 8-foot-high wooden security fencing in front of the antenna arrays and some buildings (approximately 19,280 feet per array, 57,480 feet total)

The transmitter site located near Christmas Valley, Oregon, occupies land that is managed by the Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management (BLM). The site is locally referred to as Buffalo Flats. The facility's three sectors of antennae, oriented 60 degrees from each other, require approximately 1,200 acres. The three antenna systems consist of a back screen made of 8-inch-square corrosion-resistant wire mesh. The back screen is supported by 49 steel towers, 65 feet high, spaced along a 5,000 foot axis supported by 49 concrete foot pads (see Appendix A – Photograph 2). The steel tower includes the support, top and bottom truss and dielectric support structure as shown in Appendix A- Figure A-1. Located directly behind the back screen are a series of copper tube wave-guides that run the length of the back screen. The copper wave-guide tubes extend to the antenna towers and include the balun domes. The antenna towers vary in height from approximately 45 to 135 feet and are approximately 3,640 feet long. In front of each back screen and antenna array is a ground screen of galvanized metal mesh that extends approximately 750 feet in front of each back screen and covers approximately 255 acres (85 acres per array).

An eight-foot-high wooden security fence is located approximately 100 feet in front of the ground screen encloses the entire site and some facilities (approximately 19,280 feet per antenna system or 58,284 feet total).

#### 1.3 PURPOSE AND NEED

The Air Force proposes to remove external radar equipment and fences from the OTH-B West Coast Radar System that is no longer needed at this location and maintain the remaining facilities in caretaker status. Contractors working with the Defense Reutilization and Marketing Office/Defense Reutilization and Marketing Service (DRMO/DRMS) are available to process the radar components for reuse or scrap at a substantial cost savings to the government. Various DoD agencies have expressed an interest in system components and also prices for scrap metal are currently at a high level and immediate action would provide a substantial return to the Government for radar equipment and fences. These components would include the existing radar screens, wave guides, balun domes, ground screens, and wood security fences at the transmitter site in Christmas Valley, Oregon and the receiver site in Tulelake, California.

The North American Aerospace Defense Command (NORAD) indicated that the Government has no operational requirement for the existing FPS-118 OTH-B Radar System in a letter dated 13 June 2002 (Air Force, 2002). The system was placed in caretaker status in 1991 and has been maintained in that condition since then. Therefore, spending resources on the radar system in caretaker status is an ineffective and inefficient use of Government resources.

Final EA Equipment Removal at OTH-B West Coast Radar Site

1-2 1.0 Purpose and Need

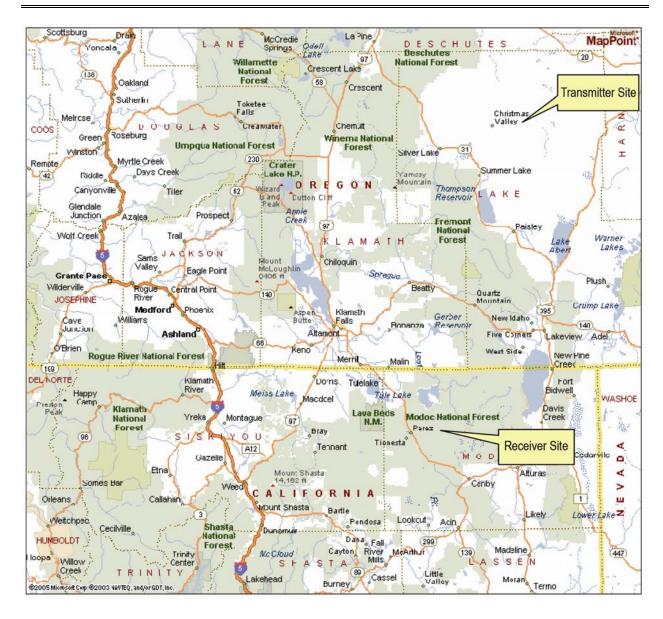


Figure 1-1. OTH-B West Coast Radar System

1.0 Purpose and Need 1-3

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1-4 1.0 Purpose and Need

# 2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

#### 2.1 PROPOSED ACTION

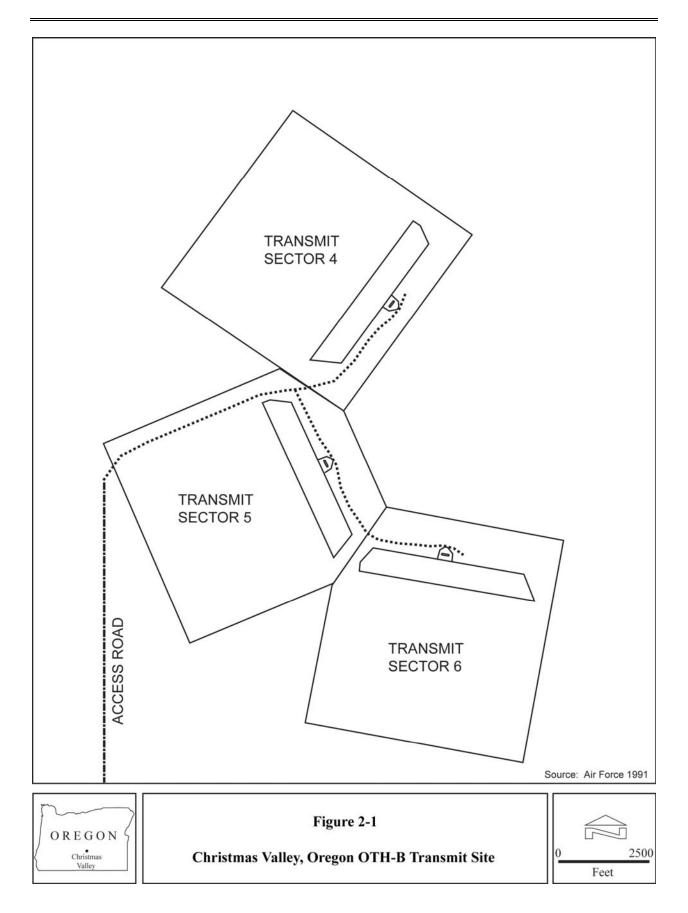
The Proposed Action consists of disassembly of a total of 549 metal antenna structures, 717 acres of metal ground screen and 115,764 linear feet of wood fence and posts from the Christmas Valley, Oregon (see Figure 2-1) and Tulelake, California (see Figure 2-2) sites. At the transmitter site in Christmas Valley, Oregon, 45 miles of 3- to 6-inch diameter copper waveguide tubes and balun domes would also be removed. Existing access roads, water systems, electrical lines owned by the local power companies and buildings would not be disturbed at either radar site. The Proposed Action would involve dismantling and removal of facility equipment, in accordance with applicable federal and state regulatory and safety requirements, to ensure proper handling and disposition of the equipment. Equipment from the facilities would be reused or recycled to the greatest extent practicable. The equipment removal would involve minimal ground disturbance and any areas that may be disturbed would be restored to prevent any long-term soil erosion. It is estimated that 618 tractor trailer loads, 293 loads from the transmitter site in Christmas Valley, Oregon, and 325 loads from the receiver site in Tulelake, California, would be generated with the removal of the equipment. Equipment removal is anticipated to take up to six months to complete.

#### **EQUIPMENT REMOVAL OPTION ONE**

With the implementation of this option, equipment removal of the antenna structures would occur in a manner such that the antenna structures could be re-assembled and reused by other DoD agencies if required; ground screen and fence and fence poles would be removed as identified below, and the fence post holes would be filled. It is estimated that approximately 15 personnel would be directly employed by the DRMO/DRMS contractor.

**Antenna Removal.** Contractor personnel using power wrenches would unbolt the segments from each other as the segments come down, including unbolting the last segments of the antenna from the 134 foundations. A mobile crane would be used for lifting the segments of the antenna onto the flatbed trucks. It is estimated that there would be 80 standard 40,000-lb, 18-wheel, flatbed, tractor-trailer truck loads for both the transmitter and receiver sites.

**Fence Removal.** The wood fence and wood posts would be pulled from the ground using a 20-ton excavator. This equipment would also be used to load the fence and fence posts on flatbed trucks. The wood fence and wood posts would be recycled through a certified scrap contractor hired by the DRMO/DRMS. It is estimated that there would be 145 standard 40,000 lb, 18-wheel, flatbed, tractor-trailer truck loads of fence and fence posts removed from each site. Holes left by the fence post removal would be filled by the contractor from an existing stockpile of on-site surplus native soil at Tulelake, California and from a local borrow pit for the



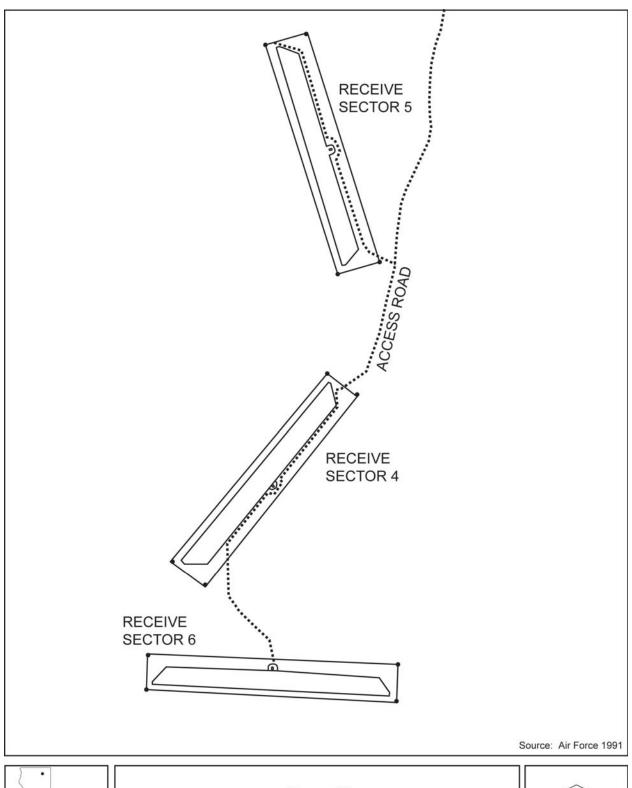
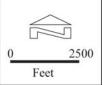




Figure 2-2
Tulelake, California OTH-B Receive Site



Final EA Equipment Removal at OTH-B West Coast Radar Site

Christmas Valley, Oregon site. It is estimated that approximately 120 cubic yards or eight 15-cubic yards truckloads would be needed.

**Ground Screen Removal.** A front-end loader will lift the metal ground screen up off of the ground as it is pushed into a roll by contractor personnel for placement upon trucks. The front-end loader has metal teeth protruding out from the edge of the bucket on the front-end loader that will pass under the wire for lifting purposes. The metal ground screen will be cut by hand with bolt cutters into 6-feet-wide sections in preparation for rolling. The metal ground screen will be recycled through a certified scrap contractor hired by the DRMO/DRMS. There would be 68 trucks from the transmitter site and 100 trucks from the receiver site. The trucks would be the standard 40 000 lb, 18-wheel, flatbed, semi tractor-trailer vehicles.

#### **EQUIPMENT REMOVAL OPTION TWO**

Implementation of the Proposed Action under this option would be accomplished by pulling the antenna structures to the ground and cutting them into pieces for transport to a recycler. Ground screen and fence and fence poles would be removed as identified below. It is estimated that approximately 12 personnel would be directly employed by the DRMO/DRMS contractor. Equipment proposed for use would include two hydraulic excavators with shears, two forklifts, one front end loader, one crane, one baler, and one fence puller. It is estimated that approximately 110 36-foot end dump tractor trailer loads would be generated with the removal of the equipment. Equipment removal is anticipated to take up to six months to complete.

**Antenna Removal.** An excavator would be used to pull down sections of the antenna structure. The antenna structures would then be cut with mechanical shears mounted on the excavator prior to loading onto tractor-trailers.

**Fence Removal.** The wood fence and wood posts would be pulled from the ground using post pulling that would pneumatically break the concrete and lift the post. This equipment would be used to load the fence and fence posts on flatbed trucks. The wood fence and wood posts would be recycled through a certified scrap contractor hired by the DRMO/DRMS. Holes left by the fence post removal would be filled in from stockpiled soils or from a nearby borrow pit.

**Ground Screen Removal.** Contractor personnel would cut the screen with a shear and use a tractor to roll the ground screen up off of the ground for placement upon trucks. The metal ground screen will be recycled through a certified scrap contractor hired by the DRMO/DRMS. There will be six end-dump 36-foot tractor-trailer trucks from each site.

**Standard Construction Practices.** To support the activities identified under either option the equipment removal contractor would establish an equipment and staging area at the transmitter and receiver sites for the storage of equipment prior to loading onto tractor trailers. This area would be within the existing gravel-covered parking areas adjacent to the existing operations and storage facilities at the transmitter and receiver sites. The contractor would bring to each site a portable diesel above-ground storage tank equipped with secondary

containment. The contractor would develop a Safety and Occupational Health Plan for the activities and maintain spill kits for the clean-up of accidental fuel and hydraulic fluid spills. Any solid waste generated during this process would be disposed of in a locally contractor-supplied dumpster located at each site. From the transmitter site in Christmas Valley, OR the solid waste would be taken by contractor to one of three transfer stations in Lake County or directly to landfills either in Lake County or Deschutes County. Solid wastes generated at the receiver site in Tulelake, CA would be taken by contractor to the landfill in Alturas CA. These landfills have adequate space to handle the minimal amount of waste anticipated to be generated from this action (personal communication Donnaway 2005; personal communication DuMilieo).

The Air Force, through its on-site contractor caretaker, would revegetate or otherwise treat any soil disturbances to prevent soil from eroding into adjacent native habitats. Revegetation would include reseeding with a BLM or USFS -approved seed mixture. The Air Force would also continue periodic maintenance, including vegetation removal, of the areas formerly occupied by any non-paved access roads and the ground screen until such time as restoration can be completed or long-term management responsibility of the site is established. With the implementation of the Proposed Action these areas would be avoided, and if equipment removal activities occur during the wet season, silt fencing shall be installed between vernal pools and construction areas to ensure that there are no impacts to vernal pools from soil erosion or runoff from construction sites.

Tractor trailers used to support this activity would travel on the existing graveled roads to the local highway system and use established truck routes through local towns. There are 9 miles of gravel roads at the transmitter site near Christmas Valley, Oregon and 11 miles at the receiver site near Tulelake, California. If necessary, the contractor would treat the gravel roads for dust control.

#### 2.2 ALTERNATIVE ONE

Under this Alternative the Air Force would remove only the items directly related to the operation of the radar system, including 45 miles of copper wave-guide tubes and balun domes, 717 acres of ground screens, and 549 metal antenna structures. The wood perimeter fence and posts would remain in place. This Alternative would have the same equipment removal options as identified above for the Proposed Action and include the standard construction practices identified under Section 2.1.

#### 2.3 NO ACTION ALTERNATIVE

Under the No Action Alternative, the Air Force would not remove this equipment at this time and the facilities would continue to be operated in caretaker status.

#### 2.4 ENVIRONMENTAL IMPACT ANALYSIS PROCESS (EIAP)

The EIAP includes the review of all information pertinent to the Proposed Action and reasonable Alternatives and provides a full and fair discussion of potential consequences to the natural and human environment. The process includes involvement with the public and agencies to identify possible consequences of an action, as well as the focusing of analysis on environmental resources potentially affected by the Proposed Action and Alternatives.

#### 2.4.1 Public and Agency Involvement

Executive Order (EO) 12372, *Intergovernmental Review of Federal Programs*, requires intergovernmental notifications prior to making a detailed statement of environmental impacts. Through the process of Interagency and Intergovernmental Coordination for Environmental Planning (IICEP), the proponent must notify concerned federal, state, and local agencies and allow them sufficient time to evaluate potential environmental impacts of a Proposed Action. Letters to relevant federal, state and local agencies were sent in March 2005 requesting their input on this proposal. An example IICEP letter and the mailing list is included in Appendix B to this EA.

The Air Force prepared and published newspaper advertisements in the Klamath Falls Herald and News on May 8, 2005 and in the Modoc County Record on May 12, 2005, announcing the availability of the Draft EA for a 30-day public review in local libraries and on the internet at www.cevp.com. Copies of the Draft EA were distributed to the California State Clearinghouse agency as the Single Point of Contact for federal facilities to allow for review by the appropriate state and local agencies and to the Oregon Department of Environmental Quality. Comments received on the Draft EA are included in Appendix B and the text of the Final EA has been modified in response to the comments. These modifications have not lead to any substantial changes to the EA; however the Air Force will fill all fence post holes associated with the fence removal.

#### 2.4.2 Regulatory Compliance

This document was prepared in accordance with the requirements of the NEPA of 1969,, CEQ Regulations for Implementing the Procedural Provisions of NEPA, and 32 CFR 989, et seq., *Environmental Impact Analysis Process (formerly known as Air Force Instruction [AFI]* 32-7061). The intent of NEPA is to protect, restore, and enhance the environment through well-informed federal decisions.

Implementation of the Proposed Action or the Alternatives requires coordination with several regulatory agencies. Compliance with the Endangered Species Act (ESA) involves communication with the Department of the Interior (delegated to the U.S. Fish and Wildlife Service [USFWS]) in cases where a federal action could affect the listed threatened or endangered species, species proposed for listing, or species that could be candidates for listing. Coordination with the appropriate USFWS agencies, as well as their state counterparts,

informing them of the Proposed Action and the Alternatives and requesting data regarding applicable protected species is underway.

The preservation of cultural resources falls under the purview of the State Historic Preservation Office (SHPO), as mandated by the National Historic Preservation Act (NHPA) (16 U.S.C. §470 et seq.) and it's implementing regulations. A Section 106 consultation package is being prepared by the Air Force for submittal to the California and Oregon SHPOs informing them of the Proposed Action and Alternatives.

#### 2.4.3 Permit Requirements

This EA has been prepared in compliance with NEPA; other federal statutes, such as the Clean Air Act (CAA) and the Clean Water Act (CWA); Executive Orders (EOs), and applicable state statutes and regulations. Table 2-1 summarizes applicable federal, state, and local permits necessary for implementation of the Proposed Action or the Alternatives. In addition to this EA being prepared for the decision maker and the interested public, it is also a tool for Air Force personnel to ensure compliance with all regulatory requirements from proposal through project implementation.

Type of Permit or Requirement Agency Regulatory Requirement Required to consult on impacts of project implementation on federally **Endangered Species Act** U.S. Fish and Wildlife Service listed or proposed threatened and endangered species National Pollutant Discharge California State Regional Water Clean Water Act Elimination System - General Storm Quality Control Board, North Water Permit Coast Region National Historic Consultation with State Historic California and Oregon State Preservation Act Section 106 Preservation Offices Historic Preservation Offices

Table 2-1. Environmental Related Regulatory Requirements

#### 2.5 COMPARISON OF ALTERNATIVES

Table 2-2 summarizes the potential environmental impacts of the Proposed Action, Alternative One, and the No Action Alternative, based on the detailed impact analyses presented in Chapter 4.0. In no instance would the potential environmental consequences be significant with the implementation of the Proposed Action or Alternatives. Under the No Action Alternative, no changes would be made to the existing structures and the sites would remain in caretaker status.

Table 2-2. Summary of Potential Environmental Impacts of Proposed Action and Alternatives

Resource	Proposed Action (Option One)	Proposed Action (Option Two)	Alternative One (Option One)	Alternative One (Option Two)	No Action Alternative
Air Quality	_	_	_	_	0
Cultural Resources	_	_	_	_	0
Biological Resources - Vegetation - Wildlife	_ +	_ +	<u>-</u>	-	0 0
Grazing					
- Transmitter Site - Receiver Site	_ _	_ _	0 0	0 0	0
Geology and Soils	_	_	_	_	0

<sup>-</sup> Adverse, but not significant impact

<sup>+</sup> Positive, beneficial impact

<sup>0</sup> No change

#### 3.0 AFFECTED ENVIRONMENT

This chapter describes relevant existing environmental conditions at the OTH-B transmitter site near Christmas Valley, Oregon and the receiver site located near Tulelake, California for resources potentially affected by the Proposed Action, Alternative One and No Action Alternative described in Chapter 2.0. In compliance with guidelines contained in the NEPA, CEQ regulations, and the requirements of the NEPA of 1969 (42 USC 4321-4347), CEQ Regulations for Implementing the Procedural Provisions of NEPA (40 CFR §§ 1500-1508), and 32 CFR Part 989, et seq., *Environmental Impact Analysis Process (formerly known as Air Force Instruction [AFI] 32-7061*), the description of the existing environment focuses on those environmental resources potentially subject to impacts. These resources and conditions are: Air Quality, Cultural Resources; Biological Resources, Grazing and Geology and Soils. The expected geographic scope of potential impacts, known as the region of influence (ROI), is defined for each resource analyzed.

#### RESOURCES ELIMINATED FROM DETAILED CONSIDERATION

Several resources were not evaluated in this EA because it was determined that implementation of the Proposed Action or Alternatives is unlikely to affect them. These resources include Airspace, Land Use, Water Resources, Safety and Occupational Health, Hazardous Materials and Waste Management, and Socioeconomics and Environmental Justice. A brief explanation of the reasons why each resource has been eliminated from further consideration in this EA is provided below.

**Airspace**. The Proposed Action and the Alternatives do not involve aircraft or airspace modifications.

**Land Use.** The mission at the site will remain in caretaker status therefore land use would not change.

**Water Resources.** The Proposed Action would not increase water requirements nor affect the existing on-site wells; therefore there will be no significant impact on water resources. Neither the transmitter site nor receiver site is located in a 100-year floodplain.

**Safety and Occupational Health**. Implementation of the Proposed Action or Alternative One would not create any unique or unusual safety issues during process of equipment removal. ACC requires as part of each contract that the National Fire Protection Association, Life Safety Code be followed and that the contractor provides barricades, traffic control signs and construction safety signs that conform to the Manual of Uniform Traffic Control Devices for Streets and Highways and the U.S. Army Corps of Engineers safety and health requirements Manual EM 385-1-1.

**Hazardous Materials and Waste Management –** There would be no unique hazardous materials involved in the Proposed Action or Alternative One and no hazardous waste

Final EA Equipment Removal at OTH-B West Coast Radar Site

generated by this action. Amounts of solid wastes not recycled under this action are anticipated to be inconsequential amounts that would be managed under the current disposal contracts.

**Socioeconomics and Environmental Justice.** The sites will remain in caretaker status after the Proposed Action or the Alternatives are implemented therefore there will be no significant impact on socioeconomics.

Environmental justice addresses the disproportionately high and adverse human health or environmental effects on minority and low-income populations. Determination of disproportionately high and adverse human health effects are established by identifying the impact on the natural or physical environment and influence on minority and low-income populations. Because the Proposed Action and the Alternatives take place within the boundaries of existing military facilities, and minority or low-income populations would not be significantly affected by implementation of the Proposed Action, environmental justice was eliminated from further analysis.

#### 3.1 AIR QUALITY

Identifying the affected area for an air quality assessment requires knowledge of sources of air emissions, pollutant types, emission rates and release parameters, proximity to other emissions sources and local conditions. Refer to Appendix C, Air Quality, for review of air quality and associated methodologies used for emissions calculations.

#### **Definition of the Resource**

Air quality is determined by the type and amount of pollutants emitted into the atmosphere, the size and topography of the air basin and the prevailing meteorological conditions. The levels of pollutants are generally expressed on a concentration basis in units of part per million (ppm) or micrograms per cubic meter ( $\mu g/m^3$ ). For this air quality analysis, the ROI centers on Tulelake, located in Modoc County, California, and Christmas Valley in Lake County, Oregon. These ROI have been chosen since the proposed activities will occur specifically in these two counties.

The baseline standards for pollutant concentrations are the National Ambient Air Quality Standards (NAAQS) and state air quality standards. These standards represent the maximum allowable atmospheric concentration that may occur and still protect public health and welfare. Further discussion of the NAAQS and state air quality standards are included in Appendix C.

The emissions sources analyzed for the Proposed Action and Alternatives include heavy construction machinery, semi-tractor trailer rigs, dust (particulate matter) from unpaved roads, and emissions associated with vehicle exhaust from contracted employee's personal vehicles. Since these emissions will occur as an isolated event over a large area the emissions may be classified and analyzed as an area source, which can then be compared to the appropriate county's emissions.

For analysis purposes the emissions from the Proposed Action and Alternatives will be compared to the respective county emissions obtained from the U.S. Environmental Protection Agency's 1999 National Emissions Inventory (NEI), which are presented in Tables 3-1 and 3-2. The county data includes emissions data from point sources, area sources, and mobile sources. *Point sources* are stationary sources that can be identified by name and location. *Area sources* are point sources whose emissions are too small to track individually, such as a home or small office building or a diffuse stationary source, such as wildfires or agricultural tilling. *Mobile sources* are any kind of vehicle or equipment with gasoline or diesel engine, an aircraft, or a ship. Two types of mobile sources are considered on-road and non-road. On-road consists of vehicles such as cars, light trucks, heavy trucks, buses, engines, and motorcycles. Non-road sources are aircraft, locomotives, diesel and gasoline boats and ships, personal watercraft, lawn and garden equipment, agricultural and construction equipment, and recreational vehicles (USEPA, 2005).

Table 3-1. Baseline Emissions Inventory for Modoc County, California

Source Type	Emissions (tons/year)				
Source Type	CO	NO <sub>X</sub>	$PM_{10}$	SO <sub>2</sub>	VOC
Point Source	0	0	0	0	0
Non-Road Source	841	1,097	46	90	110
On Road	5,738	422	10	5	493
Area	7,838	338	8,786	545	987
<b>Modoc County Total</b>	14,417	1,857	8,842	639	1,591

Source: USEPA, 1999

Table 3-2. Baseline Emissions Inventory for Lake County, Oregon

Saura Tura	Emissions (tons/year)					
Source Type	CO	NO <sub>X</sub>	$PM_{10}$	SO <sub>2</sub>	VOC	
Point Source	0	0	0	0	0	
Non-Road Source	3,378	279	83	30	1,152	
On Road	9,086	1,083	24	27	887	
Area	19,624	709	4,276	217	2,576	
Lake County Total	32,088	2,071	4,383	275	4,616	

Source: USEPA, 1999

Air emissions associated with equipment removal activities are the main issues generated by the Proposed Action and Alternatives, which will be the focus of the air analysis in Chapter 4. For the analysis of the Proposed Action and Alternatives a threshold on an individual pollutant-by-pollutant basis has been established and is presented in Appendix C, Tables C-2 and C-3. The individual pollutant emissions from the project would not exceed 10 percent of the total Modoc or Lake County emissions for each corresponding pollutant as represented in the USEPA 1999 NEI (Air Force, n.d.).

#### 3.2 CULTURAL RESOURCES

Cultural resources are defined as any prehistoric or historic district, site, building, structure, or object considered important to a culture, subculture, or community for scientific, traditional, or religious reasons. They can be divided into three categories: archaeological; architectural/engineering; and traditional.

Archaeological resources are locations where prehistoric or historic activity measurably altered the earth, or produced deposits of physical remains. Architectural/engineering resources include standing buildings, dams, canals, bridges, and other structures of historic significance. Architectural/engineering resources generally must be more than 50 years old to be considered for inclusion in the National Register of Historic Places (NRHP). However, more recent structures, such as Cold War era resources, may warrant protection if they manifest "exceptional significance" or the potential to gain significance in the future. Traditional resources are resources associated with cultural practices and beliefs of a living community that are rooted in its history and are important in maintaining the continuing cultural identity of the community.

The ROI for cultural resources is the area within which the Proposed Action has the potential to affect existing or potentially occurring archaeological, architectural/engineering, or traditional resources. For the Proposed Action and Alternatives, the ROI is defined as the Tulelake Receiver Site in California and the Christmas Valley Transmitter Site in Oregon.

#### 3.2.1 Identified Cultural Resources

#### TRANSMITTER SITE - CHRISTMAS VALLEY, OREGON

The Christmas Valley Transmitter Site occupies land that is managed by the Air Force and has been withdrawn from public use by the of the Bureau of Land Management (BLM) Lakeview Resource Area. The area is commonly referred to as Buffalo Flat. A portion of the Buffalo Flat transmitter site area was surveyed for cultural resources prior to the construction of the installation (Air Force, 1983). The survey located 20 Native American sites as well as hundreds of isolated Native American artifacts, yielding a site density of approximately one site every 42 acres. Diagnostic artifacts suggest that the area was first occupied between 7,500 to 10,000 years before present. The site density is likely a representative sample of the entire Buffalo Flat area (Air Force, 1983). At the time of the environmental assessment for the construction of the OTH-B facilities, cultural resource concerns were addressed and cleared for both the construction activities and the associated land use withdrawal. As a result, an extensive mitigation plan was not required (Air Force, 1991).

A search of the National Register Information System (NRIS) for Lake County, Oregon located 16 properties listed on the National Register of Historic Places (NRHP). None are within or adjacent to the project area (NRIS, 2005).

Traditional resources have not been identified within the Oregon OTH-B radar project area.

#### RECEIVER SITE - TULELAKE, CALIFORNIA

The Tulelake Receiver Site is located in the Rimrock Lake area, on the Doublehead Ranger District of the Modoc National Forest, Siskiyou County, California. The USFS considers this area to have a high sensitivity for the presence of cultural resources. In compliance with procedures outlined in Section 106 of the National Historic Preservation Act (NHPA), the project area was surveyed prior to facility construction. The survey was preformed by Basin Research in 1985 and 1986 (Air Force, 1987), examining 5,430 acres. The work identified a total of 133 Native American sites, 59 Native American isolates/localities, one historic grave, and two historic isolate/localities. Diagnostic artifacts located by the survey place the earliest occupation of the area at approximately 7,000 years before present, but the work of others in adjacent areas suggests people may have been in the region as early as 10,000 years before present (Air Force, 1987).

In June of 1987, a Memorandum of Agreement (MOA) was signed between the Air Force, USFS, and the California State Historic Preservation Office (SHPO) that stipulated mitigation measures, including additional archaeological survey. In compliance with the MOA, the Modoc National Forest has conducted five additional surveys, locating 75 archaeological sites on 1,855 acres (personal communication, Gates 2005).

A search of NRIS for Siskiyou County, California located 17 properties listed on the NRHP. None are within or adjacent to the project area (NRIS, 2005).

Traditional resources have not been identified within the California OTH-B radar project area.

#### TRANSMITTER AND RECEIVER SITES – COLD WAR CONTEXT OF INSTALLATIONS

In general, architectural/engineering resources need to be at least 50 years old to be considered for inclusion on the NRHP. Constructed between 1986 and 1989, the OTH-B Radar facilities in both Oregon and California are less than 50 years old, but they were completed toward the end of the National Park Service-defined Cold War era (1945-1989). As such, they could be eligible to the NRHP under special considerations afforded to Cold War era architectural and engineering resources. While the installations were operational for a period of only three months (November 1990-January 1991) before being placed in caretaker status, they are unique and represent important technological developments, and could merit listing on the NRHP (Air Force, 1991).

#### 3.3 BIOLOGICAL RESOURCES

The biological resources section incorporates living, native or naturalized, plant and animal species and the habitats within which they occur. For purposes of the impact analysis, biological resources are divided into three major categories: (1) terrestrial communities,

(2) wetland and freshwater aquatic communities, and (3) threatened, endangered, and special status species/communities. The OTH-B radar receiver and transmitter facilities were installed beginning in 1986. The receiver site is located near Tulelake, California in the vicinity of Rimrock Lake. The transmitter site is located near Christmas Valley, Oregon.

Several existing documents were used to prepare this report and are incorporated by reference. The 1983 Draft Environmental Impact Statement (EIS) described the biological resources that would be affected by construction of the transmitter and receiver sites and identified appropriate mitigation measures for addressing those impacts (Air Force, 1983). An EA prepared in 1991 to address reduced operations at the sites described the conditions at both sites following construction (Air Force, 1991). In 1991, mitigation to address impacts to vernal pools and dry lake habitats at the Tulelake receiver site was implemented. This was followed by several years of monitoring including annual monitoring reports and a Final Monitoring Report prepared in 1996 (Air Force, 1996). The California Natural Diversity Database (CNDDB) was reviewed for the Tulelake receiver site (Rimrock Lake and Lone Pine Butte USGS Quad Reports) in California (California Department of Fish and Game [CDFG], 2004a). The Oregon Natural Heritage Information Center website (<a href="http://oregonstate.edu/ornhic/">http://oregonstate.edu/ornhic/</a>) was also reviewed. In addition, reconnaissance-level surveys of the Tulelake receiver site and Christmas Valley transmitter site were conducted in October 2004. Refer to Appendix D for a list of the plant and animal species observed at the OTH-B Radar receiver and transmitter sites and copies of species lists from USFWS offices for Lake County, Oregon and Modoc County, California.

The ROI for biological resources includes the area currently occupied by the antenna arrays, the ground screen, and the surrounding fencing. Access to the structures would be limited to existing paved and gravel roads, including roads immediately adjacent to the perimeter fences, which would remain in place under the Proposed Action. The Air Force would retain caretaker status over the sites until such time as restoration can be completed and/or the land turned over to the landowner/management agency.

#### Transmitter Site – Christmas Valley, Oregon

#### TERRESTRIAL COMMUNITIES

The Christmas Valley site is located in Lake County, Oregon. The area is classified as High Lava Plain and the terrain generally consists of lava flows and dry lake beds. The region consists of rolling rangeland at an altitude of 4,350 to 4,680 feet, although the topography is flat in the vicinity of the transmitter site. The area receives little precipitation and is subject to extreme temperatures, with cold winters and hot summers. There are no active lakes or streams in the project area (Air Force, 1983).

The vegetation in the vicinity of the Christmas Valley transmitter site is a treeless, shrub-dominated plain or shrub steppe. The most common vegetation type is big sagebrush scrub dominated by big sagebrush (*Artemisia tridentata*) and greasewood (*Sarcobatus vermiculatus*). Other less common shrubs include spiny hopsage (*Grayia spinosa*), green and grey rabbitbrush

(Chrysothamnus vicidiflorus, C. nauseosus), winterfat (Krascheninnikovia lanata), and horsebrush (Tetradymia sp.). Herbaceous species are sparse and include native species such as Thurber's needle-grass (Nassella thurberianum), creeping wild rye (Leymus triticoides), bottlebrush squirreltail (Elymus elymoides), Idaho fescue (Festuca idahoensis), and peppergrass (Lepidium densiflorum), and non-native cheat grass (Bromus tectorum) and bluebunch wheat grass (Agropyron spicatum). Grey and green rabbitbrush are the dominant plants in areas that have been subject to past disturbance. Other plants found in the rabbitbrush dominated community include big sagebrush, cheat grass, tansy-mustard (Descurainia sp), and Great Basin wildrye (Leymus cinereus) (Air Force, 1983).

The transmitter radar structures, support facilities, and perimeter fence occupy about 2,800 acres total over three enclaves. Within the fenced area surrounding the radar structures, the vegetation was removed from about 25 acres for structures and the vegetation cleared from approximately 250 acres. The cleared area was graded and a base material (cinder) placed on the surface to accommodate the ground screen. The additional acreage included within the perimeter fence was left in natural condition and remains an undisturbed native shrubdominated community. The area that supports the ground screen and radar structures is maintained as an open herbaceous vegetation community. The maintenance primarily includes herbicide application once a year, which would continue while the Air Force has caretaker status of the property or until disturbed areas are revegetated.

The area provides limited support for wildlife species. No unusual wildlife features were identified at this site in the 1983 EIS. Bird species that frequent the area include Brewer's sparrow, sage sparrow, horned lark, common raven, sage thrasher, northern shrike, red-tailed hawk, American kestrel, and northern harrier. Due to the lack of open water or wetlands in the immediate vicinity of the project site, waterfowl do not frequent the area except in migratory flights over the site (Air Force, 1991). Sage grouse are typically found in the big sagebrush habitat type throughout the region, but the habitat in the vicinity of the transmitter site was not identified as suitable habitat for winter or year-round use for this species (Air Force, 1983).

No important muledeer migration routes were identified in the project area although mule deer tracks were observed on the site during a site visit in 2004. Pronghorn antelope that winter in agricultural lands in the project vicinity may move through the area in fall and spring, but no migration routes were identified in the project area and no winter use by pronghorn was identified. The three antennae arrays were arranged with space between them to minimize restrictions in the movement of muledeer and pronghorn antelope. Large carnivores such as black bear and mountain lion were not identified in the project area. Typical mammal species include those that commonly occur in Oregon shrub-steppe habitats such as coyote, bobcat, badger, black-tailed jack rabbit, and small rodents (Air Force, 1983).

While few reptile species are expected to occur in the project area, the most likely include the sagebrush lizard, gopher snake and western rattlesnake (Air Force, 1983). No permanent or

long-term water resources are present; therefore, no amphibians or fish species are found in the project area.

#### WETLAND AND FRESHWATER AQUATIC COMMUNITIES

There are no streams or other watercourses in the area. The only water sources present in the project vicinity are small depressions that hold water for brief periods after snow melt or heavy rains. However, no wetlands were identified in the area and these areas likely do not hold water for sufficient time to support wetland vegetation or habitat.

#### THREATENED, ENDANGERED, AND SPECIAL STATUS SPECIES/COMMUNITIES

There are no federally-listed plant species reported from or expected to occur at the project site. The 1983 Draft EIS for the project stated that surveys for rare plant species were planned for 1983 prior to construction. It is assumed that these surveys were conducted because the 1991 EA stated that there were no rare plants identified as a concern for this area. Sensitive plant surveys were not conducted for this action, but none are expected because the project would be limited to currently disturbed and maintained areas.

Sand dunes, which are known to support valuable vegetation and wildlife habitats, are present to the north of the Christmas Valley transmitter site, but these areas were avoided during the original installation and would not be affected by the Proposed Action.

There were no sensitive wildlife species identified in the 1991 EA or the 1983 draft EIS for this site.

#### Receiver Site - Tulelake, California

#### TERRESTRIAL COMMUNITIES

The Tulelake receiver site is located in Modoc County, California. It is approximately 10 miles south of Clear Lake Reservoir on the Modoc Plateau within the Modoc National Forest. The region is characterized by hot summers, cold winters, and low precipitation, most of which falls as snow. No permanent streams or water courses are present in the project area, although surface water may remain for several months in numerous vernal pools and dry lakes that are present in the project vicinity (Air Force, 1983).

The predominant vegetation type in the vicinity of the Tulelake receiver site, including the Modoc Plateau, is western juniper forest. Western juniper is believed to be increasing in numbers and in geographic range due to factors including fire suppression and climate change. Western juniper forest is found throughout the project vicinity except in areas that have been cleared or that have high clay or wet areas. Within the areas in the immediate vicinity of the receiver facilities, the vegetation primarily consists of big sagebrush scrub with scattered western juniper (*Juniperus occidentalis*) that forms an open canopy. This area appears to be transitional between sagebrush scrub and the western juniper forest. Other species present in

the juniper/big sagebrush community include bitter-brush (*Purshia tridentata*), low sagebrush (*Artemisia arbuscula*), rabbitbrush, Idahoe fescue, and bottlebrush squirreltail. Low sagebrush is present in areas with clay soils overlaying hardpan. Other species associated with low sagebrush include bluebunch wheatgrass, bluegrass (*Poa secunda*), and several species of buckwheat (*Eriogonum* spp.) (Air Force, 1983).

The receiver structures and fencing occupy approximately 1,200 acres at three separate enclaves. Within the fenced area surrounding the radar structures, approximately 25 acres of vegetation was removed during the original construction and 250 acres cleared for placement of the ground screen total for all three sites. Within the fenced area, the surface covered by the ground screen is currently maintained as an open herbaceous vegetation community. Because the maintenance primarily includes herbicide application twice a year (as opposed to mowing) there is no damage to the ground screen. Herbicide application of this area would continue while the Air Force has caretaker status of the property or until the disturbed areas are revegetated. Although the area is periodically sprayed, occasional small juniper and other shrubs were observed in the area growing over the ground screen during the site visit in October 2004. However, it is not likely these would be allowed to survive to full growth.

The area supports numerous wildlife typical of the Modoc Plateau, including mule deer, pronghorn antelope, black bear, mountain lions, coyote, bobcat, badger, and weasel. Small mammals include black-tailed jackrabbits, Nuttall's cottontail rabbits, woodrats, chipmunk, northern pocket gopher, and deer mice. Bird species found in the project vicinity include redtailed hawk, American kestrel, golden eagle, sage grouse, Brewer's sparrow, Loggerhead shrike, mourning dove, common raven, scrub jay, Pinyon jay, northern flicker, American robin, western bluebirds, yellow-rumped warbler, and cedar waxwing. The most abundant reptile is sagebrush lizard, although gopher snake and western rattlesnake are present (Air Force, 1983).

An extensive mitigation plan was prepared by the Air Force in 1987 and included habitat improvements, vegetation reclamation, vernal pool creation, and studies of numerous vegetation, wetland, wildlife and game issues. The Air Force entered into a memorandum of understanding with the USFS in June 1987 to formerly address the mitigations, which were administered by the USFS (Air Force, 1991).

#### WETLAND AND FRESHWATER AQUATIC COMMUNITIES

There are no streams or watercourses in the area, but there are several vernal pools including created and restored vernal pool areas outside of and adjacent to fences associated with the radar structures. The plant species found in the vernal pools are uniquely adapted to the water regime and include dowingia (*Dowingia* spp.), owl's clover (*Castelleja campestris*), wooly heads (*Psilocarphus* sp.), popcorn-flower (*Plagiobothrys* sp.), Mathias' button celery (*Eryngium mathiasae*) and tarweed (*Madia* sp.). In addition, small dry meadows are present in the project area in the northern part of the site. Species associated with this habitat include navarretia (*Navarretia* spp.), annual hairgrass (*Deschampsia dantonioides*), brodiaea (*Brodiaea* spp.), and non-native bird's foot trefoil (Lotus corniculatus).

Freshwater aquatic habitat provides important resources to many wildlife species and is especially critical in the typically dry conditions found in the project vicinity. Wetlands provide not only drinking water for wildlife but also cover, refuge, and foraging opportunities for species common to the area and described above.

In 1991, the Air Force implemented a mitigation plan to create a total of 41 pools totaling 5.5 acres to replace 26 vernal pools lost by the construction of the Tulelake receiver site. In addition, four sites totaling 1.09 acres were restored or enhanced for a total mitigation of 6.64 acres (which exceeded the mitigation requirement of 4.5 acres). Based on the results of 5 years monitoring, the created and restored successfully met or exceeded the goals set forth in the mitigation plan. In addition to replacing impacted plant communities, the created and restored vernal pools are utilized by wildlife and birds that are attracted to the source of freshwater and food. The created pools support several species of crustaceans common to vernal pools including copepods, cladocerans, fairy shrimp (*Brachinecta dissimilis*) and tadpole shrimp (*Lepidurus couesii*) (Air Force, 1996). The two species of shrimp are not among those listed as rare, threatened or endangered (CDFG, 2004).

#### THREATENED, ENDANGERED, AND SPECIAL STATUS SPECIES/COMMUNITIES

No federal or state-listed rare, threatened or endangered plant species have been reported from or are expected to occur in the Tulelake receiver site. No other rare, threatened or endangered plant species were identified for the receiver site during the EIS process prior to construction. However, one plant species is found in the project area that is currently included in the California Native Plant Society's Inventory of Rare and Endangered Plants of California (CNPS, 2001). Profuse flowered pogogyne (*Pogogyne floribunda*) is a CNPS List 1B (rare and endangered in California and elsewhere) species reported from the project vicinity (Air Force, 1996). This is an annual herb in the mint family that is associated with vernal pools, including the vernal pools at the receiver site. In addition, the northern basalt vernal pools that occur in the project area are considered a sensitive habitat type by the CDFG (CDFG, 2004).

One other plant species, Mathias' button celery (*Eryngium mathiasiae*), had been identified as a sensitive plant species potentially occurring in the project area in the 1983 EIS. This species is found at the receiver site in associated with the vernal pools; however, it is no longer identified as a sensitive species by the CNPS as it is considered too common (CNPS, 2001).

The sage grouse is a game species of special concern on the Modoc Plateau. This species is primarily dependant on big sagebrush habitat for feeding, cover and brood-rearing. Areas of low, sparse vegetation are used for breeding displays and strutting grounds. The species was identified as likely to occur in the area of the receiver site although habitat use was expected to be light due the scarcity of big sagebrush habitat. No strutting grounds were identified in the project site, although they were known to be present 1.5 miles to the northwest, north and northeast of the receiver site (Air Force, 1983). It is not known if the sage grouse uses any of the areas currently occupied by the receiver site.

Bald eagles, a federally-listed endangered species, pass through the area on their way to Clear Lake Reservoir, an importing wintering habitat for this species (Air Force, 1983). This species is unlikely to be present on the project site on a regular basis.

#### 3.4 GRAZING

The ROI for each site includes the area currently occupied by the antenna structures, the ground screen, and the surrounding wooden fencing. Existing access roads, water systems, electrical lines and buildings would not be disturbed at either radar site.

#### **Transmitter Site – Christmas Valley, Oregon**

The transmitter site occupies land which is managed by the Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management (BLM). The site was formerly part of a large grazing allotment (#10103) (personal communication Rasmussen 2005). The facility's three antennas and related structures require approximately 1,200 acres. The transmitter site is locally referred to as Buffalo Flats and is located within the Lakeview Resource Area managed by the BLM office in Lakeview, Oregon. The area is part of a BLM grazing allotment used by the JR Simplot Trust (formally ZX Ranch (personal communication Rasmussen 2005), but the OTH-B wooden perimeter fencing does not serve as a part of the allotment boundary fencing. The existing Allotment Management Plan (AMP) provides guidance on livestock grazing such as authorized number of livestock, season of use, selected grazing strategy, and range improvement plan. The grazing productivity of the study area is about 32 acres/animal unit month (AUM) (Air Force, 1983). The Lakeview Resource Management Plan (RMP) 2002 provides a set of comprehensive, long-range decisions concerning the use and management of resources administered by the BLM.

#### Receiver Site – Tulelake, California

The receiver site is leased from the U.S. Forest Service (USFS), Doublehead Ranger District, and is located within the Modoc National Forest in the Clear Lake Management Area. The facility consists of three antennas and related structures situated on approximately 2,800 acres. The Air Force prepared a mitigation plan which set forth wildlife and livestock compensation measures to replace lost forage and restrictions on timing of construction due to lambing (Air Force 1987). The site is currently situated in Carr C and H grazing allotments. The Carr C and H AMP provides guidance on the authorized number of livestock, season of use, selected grazing strategy, range improvement plan, and all other management objectives identified as a result of the Environmental Assessment and Decision Notice 1996 (USFS, 2005).

A two-unit system is employed with the four pastures comprising the Dalton Unit and seven pastures in the Boles Unit. An average of 8,090 head months is available for livestock use of the 4-year grazing cycle. Management requirements are in place to prevent soil compaction, damage to vegetation, and protection of riparian areas. Routine maintenance of range (wire and wooden) fences are the responsibility of the grazing permittee (USFS, 2005).

#### 3.5 GEOLOGY AND SOILS

This section includes topography, geology, and soils. Geologic resources of an area typically consist of surface and subsurface materials and their inherent properties. The term "soils" refers to unconsolidated materials formed from the underlying bedrock or other parent material. Soils play a critical role in both the natural and human environment. Soil drainage, texture, strength, shrink-swell potential, and erodibility all determine the suitability of ground to support man-made structures and facilities.

These resources may have scientific, historical, economic, and recreational value. The ROI for geology and soils includes the area immediately underlying the transmitter site located near Christmas Valley, Oregon and the receiver site located near Tulelake, California.

# **Transmitter Site – Christmas Valley, Oregon**

#### **GEOLOGY**

The transmitter site in Christmas Valley, Oregon is located in the relatively flat, dry bed of a large late Pleistocene lake, within the Fort Rock Basin. Noted for its north-trending fault block mountains that enclose large basins, the Basin and Range Province in Oregon stretches from the Cascade Mountain Range in the west to the Owyhee Uplands in the east. The development of rock units in the basin covers the Pliocene, Pleistocene, and Recent epochs. The oldest exposed rock unit is the Picture Rock Basalt, a thick sequence of basaltic lava flows and interbedded pyroclastic materials (i.e., volcanic materials that were ejected in a volcanic eruption). Much of the basin floor is underlain at shallow depths by the Fort Rock Formation, which is comprised of four rock types. Listed in descending order of abundance, these rock types are pyroclastics, diatomite (i.e., volcanic clay), basaltic agglomerate, and basaltic lava. The pyroclastic rocks typify the Fort Rock Formation, which occurs as bedded and massive non-bedded layers. Diatomite and ashy diatomite occur among the southern edges of the basin in the Seven Mile Ridge/Table Rock Butte areas and are exposed in dry washes. The basalt occurs as flows or agglomerates in layers about 5 to 15 feet thick. The flows of this unit generally display columnar jointing and are vesicular at the top.

No faults are recorded or visible within the project area boundaries; however, many northwest trending faults are present in the surrounding hills. Several miles to the north and east are large areas of dune sand composed of ash pumice and rock forming minerals, resulting from alluvium and surface wind-blown deposits. The project area is located at an elevation of approximately 4,300 feet above mean sea level.

#### **SOILS**

The Christmas Valley is dominated by the Flagstaff soil series, which consist of poorly drained silt loam over silty clay loam, sodic soils, and underlying hardpans. Formed in silty lake sediments, these soils occur on 0 to 1 percent slopes in the project area. Typically, the surface

layer consists of a silt loam, approximately 3 inches thick, with underlying subsoil of silty clay loam, approximately 11 inches thick. A weakly to strongly cemented hardpan occurs at a depth of about 14 inches. The swell-shrink potential is low to moderate and permeability is low, resulting in periodic shallow spring flooding. The flat terrain results in very slow runoff and a low water erosion hazard. No streams (perennial or ephemeral) traverse the project site, nor are surface drainage patterns apparent within several miles.

A small portion of the project area is covered by the Bonnick soil series, consisting of excessively drained soils formed in gravelly, sandy sediments weathered from volcanic rocks. Typically, the surface layer consists of loamy sand, about 7 inches thick, whereas the subsoil consists of gravelly loamy sand, approximately 13 inches thick. Soils beneath that depth consist of gravelly loamy sand and gravelly coarse sand, to depths over 40 inches. A hardpan layer is present below a depth of 40 inches.

Wind erodibility, or the potential for soil blowing, is affected by the soil texture, organic matter, calcium carbonate content, mineralogy, and moisture content. The erodibility of these soils by wind is moderate. The type of ground cover plays an important role in controlling the incidence of fugitive dust. Winds generally are of constant, mild velocities originating from the south-southwest. While some gusting does occur during the spring and summer months, most of the region remains relatively dust-free due to the thick growth of low sagebrush.

#### Receiver Site – Tulelake, California

#### **GEOLOGY**

The receiver site in Tulelake, California is located on the Modoc Plateau, a raised tableland, located in northern California. The Modoc Plateau extends east to Goose Lake, north to the Oregon border, and west to the Cascade Range. This plateau was formed during the Miocene period, as a result of basalt flows originating from long fissures. Because the lava flowed from long fissures rather than individual vents, a plateau characterized by thick basaltic flows and tuff beds (i.e., beds of pyroclastic materials) was formed. These flows cover hundreds of square miles, to depths up to several hundred feet. Vesicular basalt is common at the ground surface. Small cinder cones, which produced basalt and rhyolite, emanate from north-south trending faults that traverse the Modoc Plateau; however, no known faults traverse the project area. The topography across the site is generally flat to gently sloping to the west, with some undulating topography. Elevations in the project area range from approximately 4,400 to 4,500 feet above mean sea level. Double Head Mountain, one of the more prominent landmarks in the Modoc National Forest, is located approximately 4 miles north of the project area.

#### **SOILS**

The dominant soil group in the project area is the Deven-Pass Canyon families complex. Less abundant soils include the Supan-Pass Canyon families and the Pass Canyon-Los Gatos families complexes. The basalt of the Modoc Plateau is overlain by the shallow Deven-Pass Canyon

family soils, which are generally less than 20 inches deep. The 2- to 4-inch thick surface layer consists of a cobbly loam, with a granular structure. The subsoil, which extends to a depth of 12 to 16 inches, consists of cobbly clay loam and clay, and has an angular blocky structure. Underlying this subsoil is basalt bedrock. Water permeability is low and runoff potential is moderate.

The deeper Supan-Pass Canyon soils, which are 20 to 40 inches deep, have few surface rock fragments, relative to other areas in the Modoc National Forest. The Pass Canyon soils are shallow (12 inches deep) and consist of cobbly loam and clay loam, with a granular and platy structure. The Los Gatos soils are deeper (39 inches) loam and clay loam and have a granular and blocky structure.

# 4.0 ENVIRONMENTAL CONSEQUENCES

Chapter 4.0 presents the environmental consequences of the Proposed Action and the Alternatives for each of the resource areas discussed in Chapter 3.0. To define the consequences, this chapter evaluates the project elements described in Chapter 2.0 against the affected environment provided in Chapter 3.0. Cumulative effects of the Proposed Action with other foreseeable future actions are presented in Chapter 5.0.

# 4.1 **AIR QUALITY**

The ROI was defined as the counties where the transmitter and receiver will be disassembled, Lake County, Oregon and Modoc County, California respectively. For the analysis of the Proposed Action and Alternatives, a threshold on an individual pollutant-by-pollutant basis has been established. The individual pollutant emissions from the project would not exceed 10 percent of the total Modoc or Lake County emissions for each corresponding pollutant as represented in the USEPA 1999 NEI (Air Force, n.d.). The air analysis focuses on the emissions associated with the disassembly of the metal antenna structures, metal ground screens, and wood fences. Details of assumptions, calculations and methodology are included in Appendix C, Air Quality.

Demolition of structures involves two primary sources of emissions: dismantling of the structure and site removal of debris. Emissions calculations from mechanical dismemberment, debris loading, and on-site truck traffic to remove debris have been individually developed. The individual calculations for these three events have been summed to develop a recommended  $PM_{10}$  emissions factor based on the acres disturbed.

#### 4.1.1 Proposed Action

#### 4.1.1.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Table 4-1 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the Proposed Action at the transmitter site in Lake County, Oregon.

The proposed activities for Option 1 did not exceed the criterion established. The highest pollutant percentage is  $PM_{10}$ , which is 0.011 percent for Lake County. Although Lake County, Oregon is a moderately non-attainment area for  $PM_{10}$ , the calculated  $PM_{10}$  emissions do not exceed 10 percent of the counties total  $PM_{10}$  emissions, nor do they exceed de minimis levels of 100 tons per year (Appendix C Table C-2); therefore a conformity analysis is not required (Air Force, n.d.).

Table 4-1. Estimated Project Emissions by Activity for the Transmitter Site in Lake County, Oregon

Course Tune	Emissions (tons/yr)*					
Source Type	CO	$NO_x$	$PM_{10}$	$SO_x$	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00297	0.00615	0.00082	0.00053	0.00040	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Unpaved Road Emissions	-		0.299			
Vehicle Emissions	1.07178	0.17971	0.18326	0.00969	0.13342	
Proposed Action Emissions Totals	1.08104	0.19752	0.4845	0.01124	0.13536	
Lake County Total	32,088	2,071	4,383	275	4,616	
Percentage of County Total	0.003%	0.010%	0.011%	0.004%	0.003%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### **Equipment Removal Option Two**

Table 4-2 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the Proposed Action at the transmitter site in Lake County, Oregon.

Table 4-2. Estimated Project Emissions by Activity for the Transmitter Site in Lake County, Oregon

Course Turas	Emissions (tons/yr)*					
Source Type	CO	O NO <sub>x</sub> PM <sub>10</sub>		$SO_{x}$	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00595	0.01230	0.00165	0.00106	0.00080	
Forklift	0.00698	0.01602	0.00183	0.00106	0.00229	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Other Construction Equipment	0.00526	0.00630	0.00082	0.00053	0.00080	
Light Duty Gasoline Powered Trucks	0.02986	0.00206	0.00209	0.00011	0.00263	
Unpaved Roads Emissions			0.068			
Vehicle Emissions	0.85054	0.13881	0.14193	0.00739	0.10508	
Proposed Action Emissions Totals	0.89962	0.18085	0.21682	0.01065	0.11235	
Lake County Total	32,088	2,071	4,383	275	4,616	
Percentage of County Total	0.003%	0.009%	0.005%	0.004%	0.002%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

The proposed activities for Option 2 did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.009 percent for Lake County. The calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emissions (Air Force, n.d.),

nor do they exceed de minimis levels of 100 tons per year (Appendix C, Table C-2), therefore a conformity analysis is not required.

#### 4.1.1.2 RECEIVER SITE

#### **Equipment Removal Option One**

Table 4-3 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the Proposed Action at the receiver site in Modoc County, California.

The proposed activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.011 percent for Modoc County. Calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emission (Air Force, n.d.).

Table 4-3. Estimated Project Emissions by Activity for the Receiver Site in Modoc County, California

Saura Tura	Emissions (tons/yr)					
Source Type	СО	NO <sub>x</sub>	$PM_{10}$	$SO_x$	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00297	0.00615	0.00082	0.00053	0.00040	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Unpaved Roads Emissions			0.40521			
Vehicle Emissions	1.27334	0.19328	0.19909	0.00994	0.15428	
Proposed Action Emissions Totals	1.28260	0.21110	060654	0.01149	0.15622	
Modoc County Total	14,417	1,857	8,842	639	1,591	
Percentage of County Total	0.009%	0.011%	0.007%	0.002%	0.010%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### **Equipment Removal Option Two**

Table 4-4 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the Proposed Action at the receiver site in Modoc County, California.

The proposed activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.010 percent for Modoc County. The calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emission (Air Force, n.d.).

Table 4-4. Estimated Project Emissions by Activity for the Receiver Site in Modoc County, California

Source Type	Emissions (tons/yr)					
Source Type	CO	NO <sub>x</sub>	$PM_{10}$	SO <sub>x</sub>	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00595	0.01230	0.00165	0.00106	0.00080	
Forklift	0.00698	0.01602	0.00183	0.00106	0.00229	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Light Duty Gasoline Powered Trucks	0.00597	0.00041	0.00042	0.00002	0.00053	
Unpaved Roads Emissions			0.08350			
Vehicle Emissions	1.00332	0.14357	0.14884	0.00715	0.11974	
Proposed Action Emissions Totals	1.02852	0.18397	0.23766	0.01032	0.12490	
Modoc County Total	14,417	1,857	8,842	639	1,591	
Percentage of County Total	0.007%	0.010%	0.003%	0.002%	0.008%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### 4.1.2 Alternative One

#### 4.1.2.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Table 4-5 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the alternative Action at the transmitter site in Lake County, Oregon.

The Alternative One, Option 1 activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.008 percent for Lake County. Lake County, Oregon is an attainment area for  $NO_x$ . The calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emission (Air Force, n.d.).

Table 4-5. Estimated Project Emissions by Activity for the Transmitter Site in Lake County, Oregon

Source Type	Emissions (tons/year)				
Source Type	CO	$NO_x$	$PM_{10}$	$SO_{x}$	VOC
Crane	0.00240	0.00589	0.00082	0.00053	0.00074
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080
Unpaved Road Emissions			0.151		
Vehicle Emissions	1.04731	0.16209	0.16662	0.00842	0.12754
Alternative One Emissions Totals	1.05360	0.17375	0.32642	0.00944	0.12909
Lake County Total	32,088	2,071	4,383	275	4,616
Percentage of County Total	0.003%	0.008%	0.007%	0.003%	0.003%

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

# **Equipment Removal Option Two**

Table 4-6 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the alternative Action at the transmitter site in Lake County, Oregon.

The Alternative One, Option 2 activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.009 percent for Lake County. The calculated emission does not exceed 10 percent of the county's emissions for  $NO_x$  (Air Force, n.d.).

Table 4-6. Estimated Project Emissions by Activity for the Transmitter Site in Lake County, Oregon

Source Type	Emissions (tons/year)					
Source Type	CO	$NO_x$	$PM_{10}$	$SO_x$	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00595	0.01230	0.00165	0.00106	0.00080	
Forklift	0.00698	0.01602	0.00183	0.00106	0.00229	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Unpaved Road Emissions			0.0683			
Vehicle Emissions	0.85054	0.13881	0.14193	0.00739	0.10508	
Alternative One Emissions Totals	0.86976	0.17879	0.21513	0.01054	0.10971	
Lake County Total	32,088	2,071	4,383	275	4,616	
Percentage of County Total	0.003%	0.009%	0.005%	0.004%	0.002%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### 4.1.2.2 RECEIVER SITE

#### **Equipment Removal Option One**

Table 4-7 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the alternative Action at the receiver site in Modoc County, California.

The Alternative One, Option 1 activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.010 percent for Modoc County. The calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emission (Air Force, n.d.).

Table 4-7. Estimated Project Emissions by Activity for the Receiver Site in Modoc County, California

Causea Trusa	Emissions (tons/yr)					
Source Type	CO	NO <sub>x</sub>	$PM_{10}$	SO <sub>x</sub>	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Unpaved Roads Emissions			0.22442			
Vehicle Emissions	1.24903	0.17578	0.18256	0.00868	0.14844	
Alternative One Emissions Totals	1.25532	0.18745	0.4084	0.00969	0.14999	
Modoc County Total	14,417	1,857	8,842	639	1,591	
Percentage of County Total	0.009%	0.010%	0.005%	0.002%	0.009%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### **Equipment Removal Option Two**

Table 4-8 provides a detailed breakdown of the project's construction emissions on the basis of activities projected under the alternative Action at the receiver site in Modoc County, California.

The Alternative One, Option 2 activities did not exceed the criterion established. The highest pollutant percentage is  $NO_x$ , which is 0.010 percent for Modoc County. The calculated emissions from this activity will not exceed 10 percent of the county's total  $NO_x$  emission (Air Force, n.d.).

Table 4-8. Estimated Project Emissions by Activity for the Receiver Site in Modoc County, California

Source Type	Emissions (tons/yr)					
Source Type	CO	NO <sub>x</sub>	$PM_{10}$	SO <sub>x</sub>	VOC	
Crane	0.00240	0.00589	0.00082	0.00053	0.00074	
Excavator	0.00595	0.01230	0.00165	0.00106	0.00080	
Forklift	0.00698	0.01602	0.00183	0.00106	0.00229	
Tractor/Loader/Backhoe	0.00389	0.00578	0.00060	0.00049	0.00080	
Unpaved Roads Emissions			0.08350			
Vehicle Emissions	1.00332	0.14357	0.14884	0.00715	0.11974	
Alternative One Emissions Totals	1.02254	0.18356	0.23724	0.01030	0.12437	
Modoc County Total	14,417	1,857	8,842	639	1,591	
Percentage of County Total	0.007%	0.010%	0.003%	0.002%	0.008%	

Source: USEPA, 1991 as cited in U.S. Air Force, 2004

#### 4.1.3 No Action Alternative

Under the No Action Alternative, the Air Force would not remove this equipment at this time and the facilities would continue to be operated in caretaker status. Impacts to air quality would not change.

#### 4.2 CULTURAL RESOURCES

A number of federal regulations and guidelines have been established for the management of cultural resources. Section 106 of the National Historic Preservation Act (NHPA), as amended, requires federal agencies to take into account the effects of their undertakings on historic properties. Historic properties are cultural resources that are listed in, or eligible for listing in, the National Register of Historic Places (NRHP). Eligibility evaluation is the process by which resources are assessed relative to NRHP significance criteria for scientific or historic research, for the general public, and for traditional cultural groups. Under federal law, impacts to cultural resources may be considered adverse if the resources have been determined eligible for listing in the NRHP or have significance for Native American groups.

Analysis of potential impacts to cultural resources considers both direct and indirect impacts. Direct impacts may occur by physically altering, damaging, or destroying all or part of a resource; altering characteristics of the surrounding environment that contribute to the resource's significance; introducing visual or audible elements that are out of character with the property or alter its setting; or neglecting the resource to the extent that it deteriorates or is destroyed. Direct impacts are assessed by identifying the types and locations of proposed activity and determining the exact location of cultural resources that could be affected. Indirect impacts result primarily from the effects of project-induced population increases.

In compliance with Section 106 of the NHPA, prior to implementation of either the Proposed Action or Alternative One, Air Force would determine the National Register eligibility of the OTH-B facilities at Christmas Valley, Oregon and Tulelake, California. To this end, the Air Force is initiating consultation with the Oregon and California SHPOs and with the federal land management agencies that have jurisdiction over each location.

# 4.2.1 Proposed Action

#### 4.2.1.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Archaeological resources are not expected to be impacted by Equipment Removal Option 1 of the Proposed Action. This option involves the removal of 147 metal antenna structures, 255 acres of metal ground screen, 45 miles of copper wave-guide tube, and 58,824 linear feet of wood fence and posts from the Transmitter site near Christmas Valley, Oregon. The removal will include the above ground components of the structures as well as the associated below-

grade footings. This removal option would dismantle the antenna structure in such a way that components could be reassembled and reused at a different location. This would involve using a crane to support and load sections on flatbed trailers as they are unbolted and detached. All holes would be filled using fill from an on-site stockpile of native soil. The activities of the removal would occur in the same areas disturbed by the construction of the facilities in late 1980s. Equipment used for the removal such as semi tractor trailers, excavators, cranes, and loaders, would be confined to existing roadways and areas of previous disturbance. Additional details of the Proposed Action can be found in Section 2.1.

If the transmitter facilities are determined to be eligible for the NRHP, impacts to architectural and engineering resources could occur under Equipment Removal Option 1 of the Proposed Action.

Impacts to traditional resources are not expected under Equipment Removal Option 1 of the Proposed Action. The Air Force has initiated contact with the nearby tribes in Oregon to identify any potential concerns associated with the Proposed Action.

In the event of inadvertent discoveries of cultural resources during any project-related activities, all activities at that location would be halted until the find is evaluated by a qualified professional archaeologist.

#### **Equipment Removal Option Two**

This option differs from Option 1 only in the method for removal of the antenna structures. Instead of being disassembled for possible reuse, the structures would be dropped to the ground and cut into pieces appropriate to loading on flatbed semi trailers. Like Option 1, disturbances associated with the removal of the antenna structure, ground screen, and perimeter fence would be confined to existing roadways and areas disturbed by the construction of the facility in the late 1980s.

As with Equipment Removal Option 1, archaeological and traditional resources are not expected to be impacted by Equipment Removal Option 2 of the Proposed Action. Impacts to architectural/engineering resources could occur under Option 2, if the transmitter site is determined to be eligible for the NRHP.

#### 4.2.1.2 RECEIVER SITE

#### **Equipment Removal Option One**

Archaeological resources are not expected to be impacted by Equipment Removal Option 1 of the Proposed Action. This option involves the removal of 402 metal antenna structures, 462 acres of metal ground screen, and 57,480 linear feet of wood fence and posts from the Receiver site near Tulelake, California. The removal will include the above ground components of the structures as well as the associated below-grade footings. This removal option would carefully dismantle the antenna structure in such a way that components could be reassembled and

reused at a different location. This would involve using a crane to support and load sections on flatbed trailers as they are unbolted and detached. All holes would be filled using fill from an on-site stockpile of native soil. The activities of the removal would occur in the same areas disturbed by the construction of the facilities in late 1980s. Equipment used for the removal such as semi tractor trailers, excavators, cranes, and loaders, would be confined to existing roadways and areas of previous disturbance.

If the facilities are determined to be eligible to the NRHP, impacts to architectural and engineering resources could occur under Equipment Removal Option 1 of the Proposed Action.

Impacts to traditional resources are not expected under Equipment Removal Option 1 of the Proposed Action. The Air Force has initiated contact with the nearby tribes in California to identify any potential concerns associated with the Proposed Action.

In the event of inadvertent discoveries of cultural resources during any project-related activities, all activities at that location would be halted until the find is evaluated by a qualified professional archaeologist, in compliance with federal regulations.

# **Equipment Removal Option Two**

This option differs from Option 1 only in the method for removal of the antenna structures. Instead of being disassembled for possible reuse, the structures would be dropped to the ground and cut into pieces appropriate to loading on flatbed semi trailers. Like Option 1, disturbances associated with the removal of the antenna structure, ground screen, and perimeter fence would be confined to existing roadways and areas disturbed by the construction of the facility in the late 1980s.

Also like Equipment Removal Option 1, archaeological and traditional resources are not expected to be impacted by Equipment Removal Option 2 of the Proposed Action. Impacts to architectural/engineering resources could occur under Option 2, if the receiver site is determined to be eligible for the NRHP.

#### 4.2.2 Alternative One

#### 4.2.2.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Alternative One, Option 1 is the same as Equipment Removal Option 1 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. Impacts would be the same as those expected under Equipment Removal Option 1 of the Proposed Action.

#### **Equipment Removal Option Two**

Alternative One, Option 2 is the same as Equipment Removal Option 2 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. Impacts would be the same as those expected under Equipment Removal Option 2 of the Proposed Action.

#### 4.2.2.2 RECEIVER SITE

#### **Equipment Removal Option One**

Alternative One, Option 1 is the same as Equipment Removal Option 1 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. Impacts would be the same as those expected under Equipment Removal Option 1 of the Proposed Action.

#### **Equipment Removal Option Two**

Alternative One, Option 2 is the same as Equipment Removal Option 2 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. Impacts would be the same as those expected under Equipment Removal Option 2 of the Proposed Action.

#### 4.2.3 No Action Alternative

Under the No Action Alternative, the OTH-B Radar facilities would not be demolished. No impacts to archaeological, architectural/engineering, or traditional resources would be expected. The facilities would remain in a caretaker status and resources would continue to be managed in compliance with federal law and Air Force regulations.

#### 4.3 BIOLOGICAL RESOURCES

# 4.3.1 Proposed Action

#### 4.3.1.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Terrestrial Communities. Construction and operation of the radar transmitter structures, support facilities and perimeter fencing were determined to have no significant adverse impact on natural vegetation or wildlife resources (Air Force, 1983). The current project includes only removal of a portion of the existing facilities; the antenna structures, ground screen and fence (including fence poles). The remaining facilities, including buildings, paved and gravel roads, and base material for the ground screen, will remain in place and the transmitter facility will remain in caretaker status, which includes continued vegetation management in disturbed areas

until revegetation occurs. Removal of the remaining facilities, roads, and ground screen base material, and final recontouring and revegetation of the transmitter site is not addressed in this EA but will be subject to future assessment.

Equipment Removal Option 1 would remove the antenna in a manner that it could be reassembled. The ground screen would be removed by cutting, rolling and lifting the material on to trucks. The fence and fence posts would be removed and post holes filled in with soil from a nearby borrow pit and using a front-end loader. For the antenna and ground screen removal, all personnel and equipment would remain within the existing disturbed areas, including paved and gravel roads and the ground screen area. For the fence removal, both sides of the existing fence are maintained clear of vegetation, including the portion of the fence that encompasses natural habitat, and fence removal would remain within the existing cleared area, according to the project description. There would be no removal of native vegetation associated with the proposed project and therefore no impacts on natural vegetation.

Removal of the antenna structures and ground screen will impact herbaceous dominated vegetation that has become established over the ground screen area. However, this area is routinely subject to periodic vegetation removal; therefore the vegetation removal associated with the proposed project would be equivalent to the routine maintenance of the site. There would be no significant long-term adverse impacts to natural vegetation from the proposed Equipment Removal Option 1.

Equipment removal, including removal and filling of fence post holes with soil from a nearby borrow pit, may result in disturbance to ground surface that can indirectly impact adjacent natural habitats through soil erosion. In addition, disturbed areas may become vegetated with non-native plant species, including invasive plants, which have the potential to spread into and degrade adjacent native habitats.

As stated in the project description, the Air Force would retain caretaker status over the sites until such time as removal of the remaining structures, recontouring and revegetation to pre-installation conditions can be completed (Air Force, 1983). Under the current conditions, existing disturbed areas are periodically treated to prevent vegetation establishment and growth. This activity also prevents the establishment and growth of non-native invasive plant species. The USAF through the on-site contractor will continue the vegetation management until revegetation occurs. In addition, any areas disturbed during equipment and fence removal will be revegetated or otherwise treated to prevent soil from eroding into adjacent native habitats. These protection measures reduce the likelihood of soil erosion or establishment of non-native plant species to degrade nearby native habitat, and therefore potential impacts on natural vegetations would be less than significant.

The removal of the antenna structures and perimeter fence is not likely to have significant adverse affects on common wildlife species. Impacts will be temporary and similar to impacts resulting from existing vegetation management efforts currently in effect. In addition, wildlife use of the transmitter site appears to be somewhat limited due to the existing conditions. The

loss of antennae and fencing would eliminate potential perch sites for raptors and smaller birds; however, the overall effect of facilities removal would be beneficial to most avian species due to the elimination of potential air collisions. In addition, the removal of fencing and antennae would result in a beneficial impact to sage grouse and to many larger wildlife species (such as mule deer, black bear, and coyote which have large home ranges) by increasing the larger species' ability to migrate through the area and to sage grouse by increasing the potential for their preferred, open habitat.

Wetland and Freshwater Aquatic Communities. There are no wetland or aquatic communities at the Christmas Valley transmitter site, and therefore there are no adverse impacts to this resource.

*Threatened, Endangered, and Special Status Species/Communities.* No federal or state-listed rare, threatened or endangered plant species are found or expected to occur within the Christmas Valley transmitter site and therefore, there would be no adverse impacts to this resource.

Wildlife species listed, proposed for listing, or candidates for listing as threatened and endangered in accordance with the ESA of 1973 (87 Stat. 884, as amended; 16 USC 1531 *et seq.*) are not anticipated to be adversely affected by the Proposed Action. State-protected species would also not be adversely affected by the Proposed Action at this location because their habitat would not be altered and because changes in activities at transmitter site are not expected to be biologically significant. No special wildlife species or sensitive habitats are expected to be impacted.

#### **Equipment Removal Option Two**

Under this option, the antenna structures would be pulled to the ground and cut into pieces for recycling. The fence and fence post removal and ground screen removal would be the same as for the proposed project. All activities would be restricted to the existing disturbed areas including paved and dirt roads, the ground screen area, and cleared areas along the fences. With regard to biological resources, the affects of the proposed project would be the same as for Option 1.

#### 4.3.1.2 RECEIVER SITE

#### **Equipment Removal Option One**

*Terrestrial Communities.* As with the transmitter site, construction and operation of the radar receiver site at Tulelake including structures, support facilities and perimeter fencing were determined to have no significant adverse impact on natural vegetation or wildlife resources (Air Force, 1983). The current project includes the removal of only a portion of the existing facilities; the antenna structures, ground screen and fence (including fence posts). The remaining facilities, including buildings, paved and gravel roads, and base material for the

ground screen, will remain in place and the transmitter facility will remain in caretaker status. Removal of the remaining facilities, roads, and ground screen base material, and final recontouring and revegetation of the transmitter site is not addressed in this EA but will be subject to future assessment.

Equipment Removal Option 1 would be the same as the transmitter site as described above. For the antenna and ground screen removal, all personnel and equipment would remain within the existing disturbed areas, including paved and gravel roads and the ground screen area. At this location, the fence surrounds the ground screen area and is therefore, subject to periodic vegetation management to prevent establishment of large shrubs and trees, although scattered small shrubs do occur on the ground screen. Outside the fence, there is a perimeter road and a narrow area between the road and the fence which is also maintained. Fence removal activities would remain within the fenced area, on the perimeter roads, or within the area between the perimeter roads and the fences. There would be no removal of native vegetation associated with the proposed project and therefore, no impacts on natural vegetation.

Removal of the antenna structures and ground screen will impact the herbaceous dominated vegetation and scattered shrubs that have established over the ground screen area. However, this area is routinely subject to periodic vegetation removal and the vegetation removal associated with the proposed project would be equivalent to the routine maintenance. Therefore, there would be no significant long-term adverse impacts to natural vegetation from the proposed Equipment Removal Option 1.

Similar to the transmitter site, equipment removal activities that result in ground disturbance have the potential to result in the degradation of natural communities over time due to soil erosion or spread of invasive plant species. However, the Air Force through the on-site contractor will continue the vegetation management until restoration occurs. Any areas disturbed during equipment and fence removal will be revegetated or otherwise treated to prevent soil from eroding into adjacent native habitats. These protection measures reduce the likelihood of soil erosion or establishment of non-native plant species to degrade nearby native habitat, and therefore potential impacts of natural vegetation would be less than significant.

The removal of the antenna structures and perimeter fence at the Tulelake receiver site is not likely to have significant adverse affects on common wildlife species. Impacts will be temporary and similar to impacts resulting from existing vegetation management efforts currently in effect. In addition, wildlife use of the receiver site appears to be somewhat limited due to the existing conditions. The loss of antennae and fencing would eliminate potential perch sites for raptors and smaller birds; however, the overall effect of facilities removal would be beneficial to most avian species due to the elimination of potential air collisions. In addition, the removal of fencing and antennae would result in a beneficial impact to sage grouse and to many larger wildlife species (such as mule deer, black bear, and coyote which have large home ranges) by increasing the larger species' ability to migrate through the area and to sage grouse by increasing the potential for their preferred, open habitat.

Wetland and Freshwater Aquatic Communities. At the Tulelake Receiver site, several natural and created vernal pools are present immediately adjacent to project facilities, primarily the perimeter roads outside of fences. Removal of the radar structures and fencing has the potential to indirectly affect these resources if personnel or equipment extend beyond the existing disturbed areas. Vernal pools and dry lake habitats may be degraded by soil erosion or runoff from construction sites, especially if work occurs during rain. The contractor is required to have a Storm Water Pollution Prevention Plan (SWPPP), which would include incorporation of standard construction practices such as construction of silt fences which will ensure that there are no impacts to vernal pools from soil erosion or runoff from construction sites. By protecting sensitive wetland resources during construction and implementation of measures to prevent soil erosion or non-native plant establishment, potential impacts on vernal pools and dry lake beds would be less than significant.

In addition, ground disturbances resulting from fence and ground screen removal could result in soil erosion or establishment and spread of non-native invasive plant species which could affect wetland habitat. Standard construction practices to prevent degradation of habitat from soil erosion and invasive plant species would also protect vernal pools and drylake habitats.

*Threatened, Endangered, and Special Status Species/Communities.* No federal or state-listed rare, threatened or endangered plant species are found or expected to occur within the Tulelake Receiver site. One non-listed sensitive plant species is found in association with vernal pools. Measures to protect vernal pool habitats (described above) would also protect this species.

Wildlife species listed, proposed for listing, or candidates for listing as threatened and endangered in accordance with the ESA of 1973 (87 Stat. 884, as amended; 16 USC 1531 *et seq.*) are not anticipated to be adversely affected by the Proposed Action. State-protected species would also not be adversely affected by the Proposed Action at the receiver site because their habitat would not be altered and because changes in activities at the receiver and transmitter sites are not expected to be biologically significant. No special wildlife species or sensitive habitats are expected to be impacted.

#### **Equipment Removal Option Two**

Under this option, the activities would be restricted to the existing disturbed areas and the affects of the proposed project on biological resources would be the same as for Option 1.

#### 4.3.2 Alternative One

#### 4.3.2.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Under this Alternative, only the radar structures and ground screen would be removed; the perimeter fence would remain in place. Alternative One, Option 1 would be the same as for the

Proposed Action with the antenna structures disassembled in a manner that could be reused except that there would be a reduction in the beneficial impacts of removing fences which would increase wildlife species' ability to migrate through the area. Impacts to biological resources would be the same as those associated with the removal of the antenna and ground screen described for the Proposed Action. The impacts include the potential for ground disturbance and exposed soils to erode or promote the spread of invasive plant species, although these impacts would be reduced by not removing the fence and fence posts. Under Alternative One, Option 1, the Air Force would continue caretaker status of the facility and would be responsible for the prevention of soil erosion and spread of invasive plant species through continued vegetation management and restoration efforts. With these practices, potential impacts to natural vegetation would be less than significant.

With regard to wildlife, potential impacts would be the same as identified for the Proposed Action, except that beneficial impacts would be reduced if the fences, which may be restricting wildlife migration in the area, remain in place.

# **Equipment Removal Option Two**

As for Alternative One, Option 1, only the radar structures and ground screen would be removed; the perimeter fence would remain in place. However, the antenna structures would be pulled down and sectioned for recycling. With regard to biological resources, under this option, the activities would be restricted to the existing disturbed areas and the affects of the Proposed Action would be the same as for Option 1.

#### 4.3.2.2 RECEIVER SITE

#### **Equipment Removal Option One**

Equipment Removal Option 1 would be the same as for the Proposed Action with the antenna structures disassembled in a manner that could be reused and the fence remaining in place. At the receiver site, this action would restrict all project activities within the existing enclaves. As for the proposed project, potential impacts to natural vegetation would be less than significant. The effects on biological resources would be the same as for the Proposed Action although reduced since the fences would remain in place. Beneficial impacts to wildlife would be reduced if the fences, which may be restricting wildlife migration in the area, remain in place. Potential impacts on vernal pool and dry lake habitats would also be reduced as there would be less equipment and personnel working in the vicinity of these sensitive resources.

#### **Equipment Removal Option Two**

Under this option, the activities would be restricted to the existing disturbed areas and the affects of the proposed project on biological resources would be the same as for Option 1.

#### 4.3.3 No Action Alternative

Under the No Action Alternative, there would be no environmental consequences to this resource. However, potential beneficial impacts to wildlife species would be reduced if the facilities, radars, and fences, which may be restricting wildlife migration in the area, remain in place.

#### 4.4 GRAZING

# 4.4.1 Proposed Action

#### 4.4.1.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

The current proposal includes the removal of the existing facilities including the antenna structures, ground screen, and fence and fence poles. The remaining facilities would remain in place and in caretaker status. The removal of fencing may result in temporary ground disturbance; however, areas will be revegetated in accordance with the BLM Lakeview Resource Management Plan. All holes would be filled using fill from a nearby borrow pit. While fencing and equipment removal will not have a significant impact on grazing operations or on forage value (personal communication, Ramasco 2005), cattle from the surrounding allotment could wander freely over the site.

#### **Equipment Removal Option Two**

This option differs from Option 1 only in the method for removal of the antenna structures. Instead of being disassembled for possible reuse, the structures would be dropped to the ground and cut into pieces appropriate to loading on flatbed semi-trailers. The fencing and equipment removal will not have a significant impact on grazing operations or on forage value (personal communication, Ramasco 2005).

#### 4.4.1.2 RECEIVER SITE

#### **Equipment Removal Option One**

The current proposal includes the removal of the antenna structures, ground screen, and fence and fence poles. The remaining facilities will remain in place and in caretaker status. The removal of fencing may result in temporary ground disturbance; however, areas would be revegetated in accordance with the USFS requirements. All holes would be filled using fill from an on-site stockpile of native soil. The fencing removal would adversely impact the grazing permittees as the fences currently serve as allotment boundary fencing. Without the fence the permittees and USFS will be unable to manage the area in compliance with the AMP unless the fencing is replaced. Replacement of the fence would not be the responsibility of the Air Force;

however, the Air Force will work with the USFS and their grazing permittee(s) to coordinate the timing of the fence removal in order to limit the amount of disturbance to grazing operations.

#### **Equipment Removal Option Two**

This option differs from Option 1 only in the method for removal of the antenna structures. Instead of being disassembled for possible reuse, the structures would be dropped to the ground and cut into pieces appropriate to loading on flatbed semi-trailers. As noted under Option 1, fencing removal would adversely impact the grazing permittee(s) as the fences currently serve as allotment boundary fencing. Replacement of the fence would not be the responsibility of the Air Force; however, the Air Force will work with the USFS and their grazing permittee(s) to coordinate the timing of the fence removal in order to limit the amount of disturbance to grazing operations.

#### 4.4.2 Alternative One

#### 4.4.2.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

Alternative One, Option 1 is the same as Equipment Removal Option 1 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. The equipment removal will have no significant impact on grazing operations or on forage value (personal communication, Ramasco 2005).

#### **Equipment Removal Option Two**

Alternative One, Option Two is the same as Equipment Removal Option 2 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place. The equipment removal will have no significant impact on grazing operations or on forage value (personal communication, Ramasco 2005).

#### 4.4.2.2 RECEIVER SITE

#### **Equipment Removal Option One**

Alternative One, Option 1 is the same as Equipment Removal Option 1 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the perimeter fence would be left in place and there would be no impacts to grazing.

#### **Equipment Removal Option Two**

Alternative One, Option 2 is the same as Equipment Removal Option 2 of the Proposed Action with the exception of the treatment of the perimeter fence. Instead of being removed, the

perimeter fence would be left in place. The allotment boundary fencing would remain in place and there would be no impacts to grazing under this Alternative.

#### 4.4.3 No Action Alternative

Under the No Action Alternative, the OTH-B radar facilities would not be demolished. No impacts to livestock grazing would be expected. The facilities would remain in a caretaker status and resources would continue to be managed in compliance with federal law and Air Force regulations.

#### 4.5 GEOLOGY AND SOILS

# 4.5.1 Proposed Action

#### 4.5.1.1 TRANSMITTER SITE

#### **Equipment Removal Option One**

The Proposed Action would have no impact with respect to the geology of the project area, such as alteration of the topography or disturbance of unique geologic features, as the project site is located within a relatively flat ancient dry lake bed. Similarly, regional faults would have no impact on the Proposed Action. However, fence and equipment removal would expose and disturb on-site soils, resulting in temporary exposure to wind and water erosion. Although the permeability is low and periodic shallow spring flooding occurs at the Christmas Valley site, the topography is generally flat, resulting in very slow runoff and a low water erosion hazard. In addition, no perennial or ephemeral creeks traverse the project site, nor are surface drainage patterns apparent within several miles. Therefore, potential erosion induced sedimentation of local water resources would be minimal and no significant impacts would occur.

#### **Equipment Removal Option Two**

Impacts would be similar to those described for Equipment Removal Option 1.

#### 4.5.1.2 RECEIVER SITE

#### **Equipment Removal Option One**

Similar to the Christmas Valley site, the Proposed Action would have no impact with respect to the geology of the project area, such as alteration of the topography or disturbance of unique geologic features, as the project site is located on relatively flat to gently sloping topography. Similarly, regional faults would have no impact on the Proposed Action. However, fence and equipment removal would expose and disturb on-site soils, resulting in temporary exposure to wind and water erosion. Water permeability through on-site soils is low and the runoff potential is moderate, potentially resulting is erosion induced sedimentation of local drainages, creeks, and regional lakes.

However, in accordance with NPDES permit regulations, all activities would be completed in accordance with a SWPPP, which would include incorporation of standard construction practices, such as construction of silt fences and temporary stormwater debris basins. Potential short-term wind erosion during and immediately following equipment dismantling and fence removal activities would be minimized by water truck applications, as necessary. In addition, revegetation upon completion of equipment dismantling would prevent long-term wind- and water-induced soil erosion. Therefore, fence and equipment removal activities would have no significant adverse impact with respect to geology and soils in the vicinity of the project site.

#### **Equipment Removal Option Two**

Impacts would be similar to those described for Equipment Removal Option 1.

#### 4.5.2 Alternative One

#### 4.5.2.1 TRANSMITTER SITE

# **Equipment Removal Option One**

Alternative One, Option 1 impacts would be similar but less than those described for the Proposed Action. Leaving the fences in-place will reduce soil disturbances and associated potential erosion-induced sedimentation of local water resources. Impacts would similarly be less than significant.

# **Equipment Removal Option Two**

Alternative One, Option 2 impacts would be similar to those described for Equipment Removal Option 1.

#### 4.5.2.2 RECEIVER SITE

#### **Equipment Removal Option One**

Alternative One, Option 1 impacts would be similar but less than those described for the Proposed Action. Leaving the fences in-place will reduce soil disturbances and associated potential erosion-induced sedimentation of local water resources. Impacts would similarly be less than significant.

#### **Equipment Removal Option Two**

Alternative One, Option 2 impacts would be similar to those described for Equipment Removal Option 1.

# 4.5.3 No Action Alternative

No impacts to geology and soils would be expected, as disturbance of soils and potential erosion induced sedimentation of local drainages, creeks, and regional lakes would not occur.

# 5.0 CUMULATIVE EFFECTS AND IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

# 5.1 CUMULATIVE EFFECTS

This section provides (1) a definition of cumulative effects, (2) a description of past, present, and reasonably foreseeable actions relevant to cumulative effects, and (3) an evaluation of cumulative effects potentially resulting from these interactions.

#### **5.1.1** Definition of Cumulative Effects

CEQ regulations stipulate that the cumulative effects analysis within an EA should consider the potential environmental impacts resulting from "the incremental impacts of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such other actions" (40 CFR 1508.7). Recent CEQ guidance in *Considering Cumulative Effects* affirms this requirement, stating that the first steps in assessing cumulative effects involve defining the scope of the other actions and their interrelationship with the Proposed Action. The scope must consider geographic and temporal overlaps among the Proposed Action and other actions. It must also evaluate the nature of interactions among these actions.

Cumulative effects are most likely to arise when a relationship or synergism exists between a Proposed Action and other actions expected to occur in a similar location or during a similar time period. Actions overlapping with, or in close proximity to, the Proposed Action would be expected to have more potential for a relationship than actions that may be geographically separated. Similarly, actions that coincide, even partially, in time would tend to offer a higher potential for cumulative effects.

To identify cumulative effects, this EA addresses three questions:

- 1. Does a relationship exist such that elements of the Proposed Action might interact with elements of past, present, or reasonably foreseeable actions?
- 2. If one or more of the elements of the Proposed Action and another action could be expected to interact, would the Proposed Action affect or be affected by impacts of the other action?
- 3. If such a relationship exists, does an assessment reveal any potentially significant impacts not identified when the Proposed Action is considered alone?

In this EA, an effort has been made to identify all actions that are being considered and that are in the planning phase at this time. To the extent that details regarding such actions exist and

5-1

the actions have a potential to interact with the Proposed Action and the No Action Alternative in this EA, these actions are included in this cumulative analysis. This approach enables decisionmakers to have the most current information available so that they can evaluate the environmental consequences of the Proposed Action and the No Action Alternative.

# 5.1.2 Past, Present, and Reasonably Foreseeable Actions

This EA applies a stepped approach to provide decisionmakers with not only the cumulative effects of the Proposed Action, Alternative One, and the No Action Alternative, but also the incremental contribution of past, present, and reasonably foreseeable actions.

# PAST AND PRESENT ACTIONS RELEVANT TO THE PROPOSED ACTION AND NO ACTION ALTERNATIVE

The OTH-B Radar system was constructed on both the East and West Coasts of the United States in the 1980s. The construction and operation of the OTH-B West Coast sites at Christmas Valley, Oregon and Tulelake, California was evaluated in an environmental impact statement (EIS) completed in 1984. The sites were accepted by the Air Force in November 1990, after a test and evaluation phase which was completed in October 1990. The sites were operated on a 24-hour basis, from November 1990 to January 1991 under a contract with General Electric Government Services Division. Following a January 1991 decision to reduce operations, caretaker status was achieved by the end of September 1991. This action was evaluated in an environmental assessment in completed in September 1991 (Air Force, 1991).

The North American Aerospace Defense Command (NORAD) identified in a 13 June 2002 memorandum that the government no longer had an operational requirement for the existing FPS-118 Over-The-Horizon Backscatter (OTH-B) radar system. The Air Force initiated actions to evaluate the closure of the OTH-B East Coast sites in FY 2003 and published an environmental assessment/environmental baseline survey in October 2003 documenting the effects of the termination of caretaker operations, the removal of all equipment, and the transfer of OTH-B properties at Moscow, Columbia Falls, and Bangor Air National Guard Base, Maine (Air Force, 2003). In 2005 the Air Force issued a Categorical Exclusion for the removal of computers and equipment from inside of the buildings at of the OTH-B West Coast sites at Christmas Valley, Oregon and Tulelake, California (Air Force, 2005).

#### REASONABLY FORESEEABLE FUTURE ACTIONS

In response to the NORAD 2002 memorandum, the Air Force will be evaluating the environmental consequences of the terminating the leases for the OTH-B West Coast sites and restoring the sites to their original condition as called for in the lease agreements with the Bureau of Reclamation (Transmitter Site – Christmas Valley, Oregon) and the United States Forest Service (Receiver Site – Tulelake, California). There are no known actions proposed within the study area that would interact with the Proposed Action.

# **5.1.3** Analysis of Cumulative Impacts

The following analysis examines how the impacts of these other actions might be affected by the Proposed Action and whether such a relationship would result in potentially significant impacts not identified when the Proposed Action, Alternative One, and the No Action Alternative are considered alone.

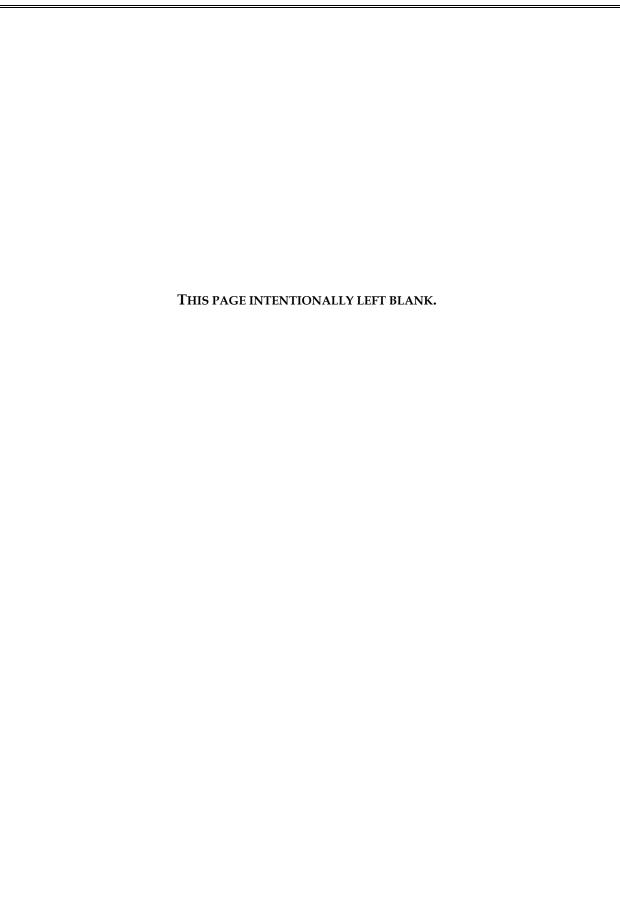
Implementation of the Proposed Action or the Alternatives is independent of the decision to restore and dispose of the transmitter and receiver radar sites currently leased from the Bureau of Land Management and the United States Forest Service. The equipment removal addressed in this EA does not preclude any alternatives for addressing restoration and disposition of the radar sites. With the notification from NORAD in 2002 that there is no longer any operational requirement for the OTH-B radar system, the Air Force has determined that there is no need to maintain the radar equipment at the OTH-B West Coast sites. There are no known actions proposed within the study area that would interact with the Proposed Action and lead to significant environmental consequences when considered along with the equipment removal at either of the radar sites.

# 5.2 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

NEPA requires that environmental analysis include identification of "... any irreversible and irretrievable commitments of resources which would be involved in the Proposed Action and the No Action Alternative should it be implemented." Irreversible and irretrievable resource commitments are related to the use of nonrenewable resources and the effects that the uses of these resources have on future generations. Irreversible effects primarily result from the use or destruction of a specific resource (e.g., energy and minerals) that cannot be replaced within a reasonable time frame. Irretrievable resource commitments involve the loss in value of an affected resource that cannot be restored as a result of the action (e.g., extinction of a threatened or endangered species or the demolition of a historic building).

The Proposed Action and Alternative One would require the use of fossil fuels in construction vehicles; these non-renewable resources would be irretrievably lost however the effect is minor and not significant.

5-3



# 6.0 REFERENCES

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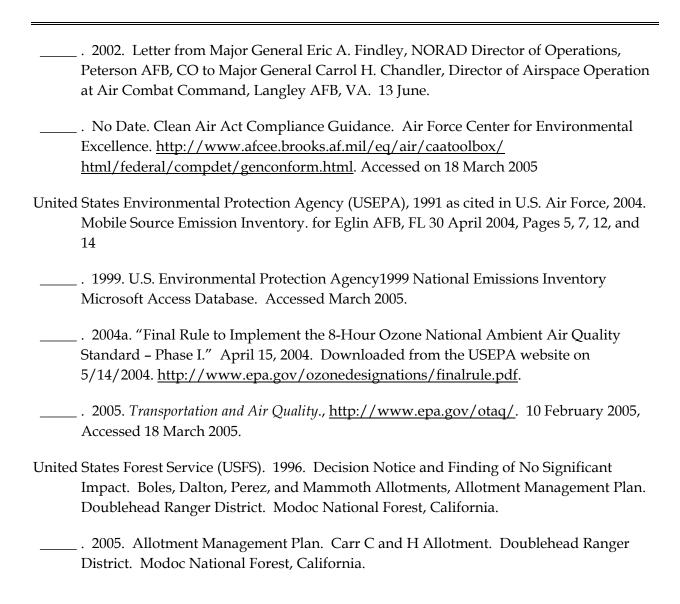
\_\_\_\_\_. 1999. Air Emissions Inventory Guidance Document for Stationary Sources at Air Force Installations (AFIERA). IERA-RS-BR-SR-1999-0001. May 1999.

for US Air Combat Command. Langley Air Force Base, Virginia. August.

Backscatter West Coast Radar System Receive Site, Tulelake Air Force Station. Prepared

Final EA Equipment Removal at OTH-B West Coast Radar Site

6.0 References 6-1



6-2 6.0 References

Final EA Equipment Removal at OTH-B West Coast Radar Site

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7-2 7.0 List of Preparers



Receiver Site, Tulelake, California

Final EA Equipment Removal at OTH-B West Coast Radar Site

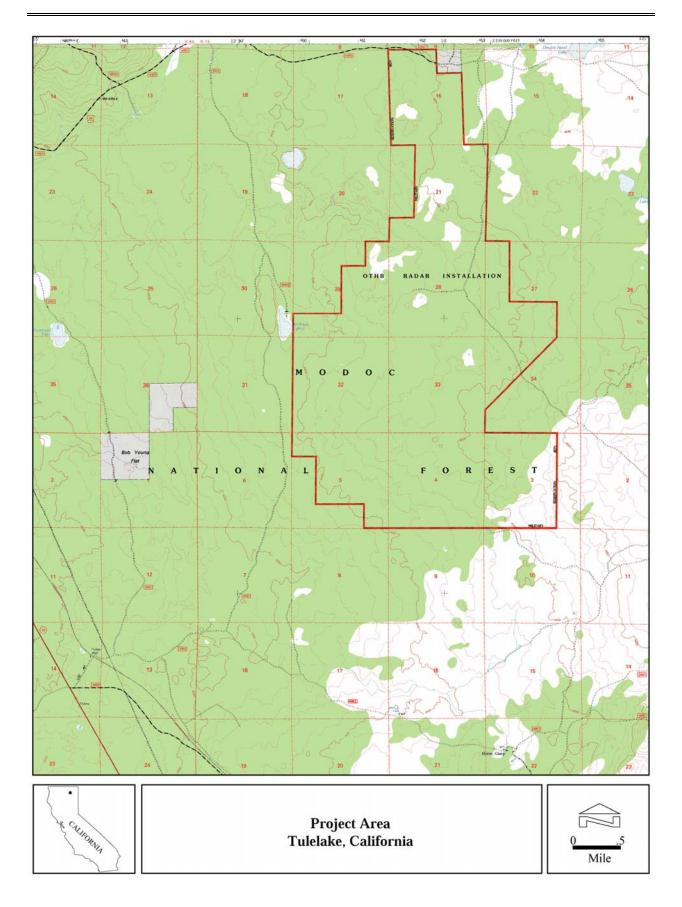
Appendix A A-1



Transmitter Site, Christmas Valley, Oregon

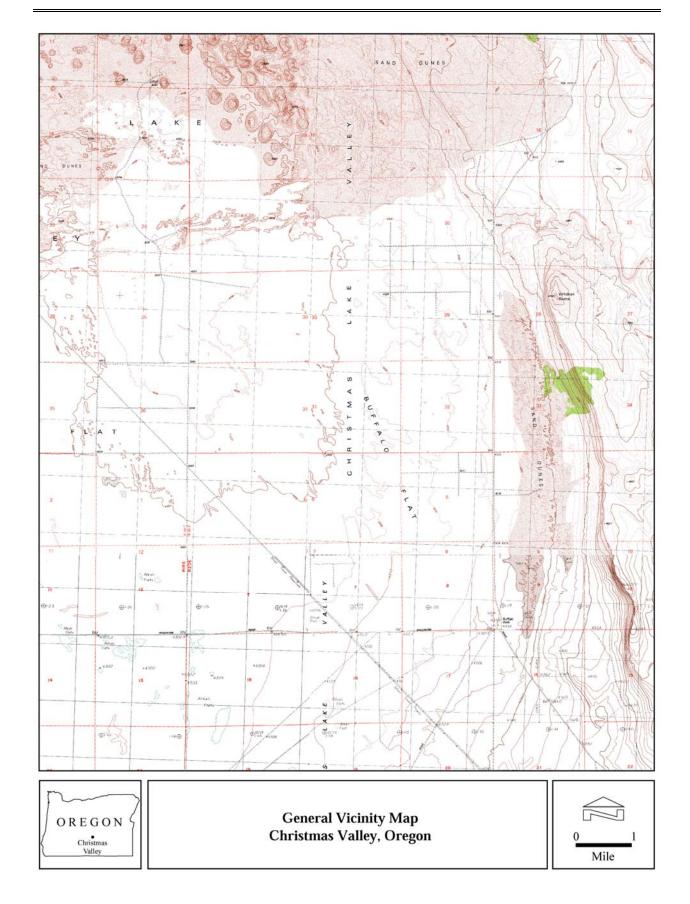
Final EA Equipment Removal at OTH-B West Coast Radar Site

A-2 Appendix A

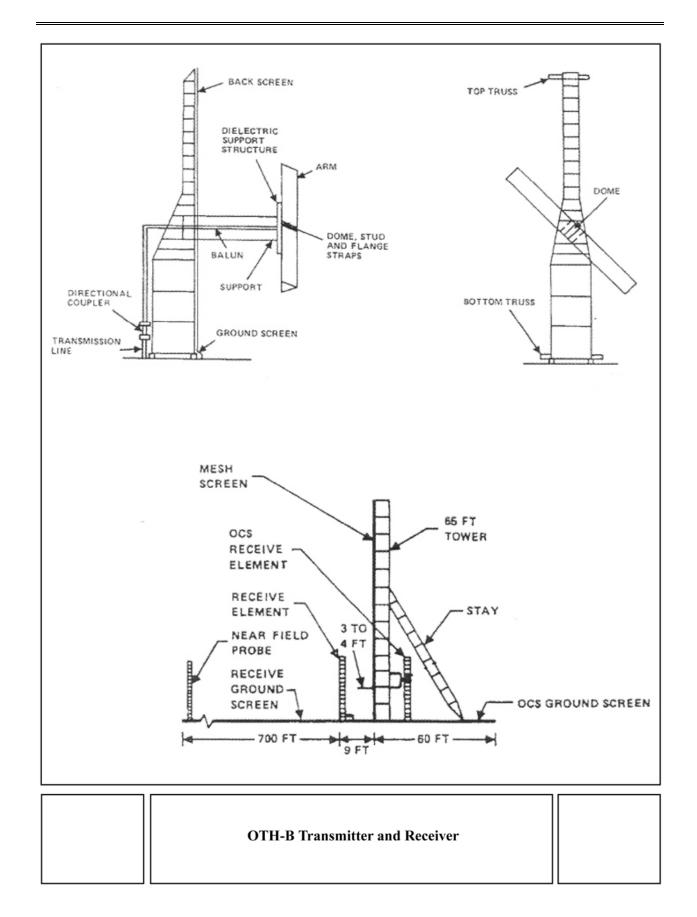


Final EA Equipment Removal at OTH-B West Coast Radar Site

Appendix A A-3

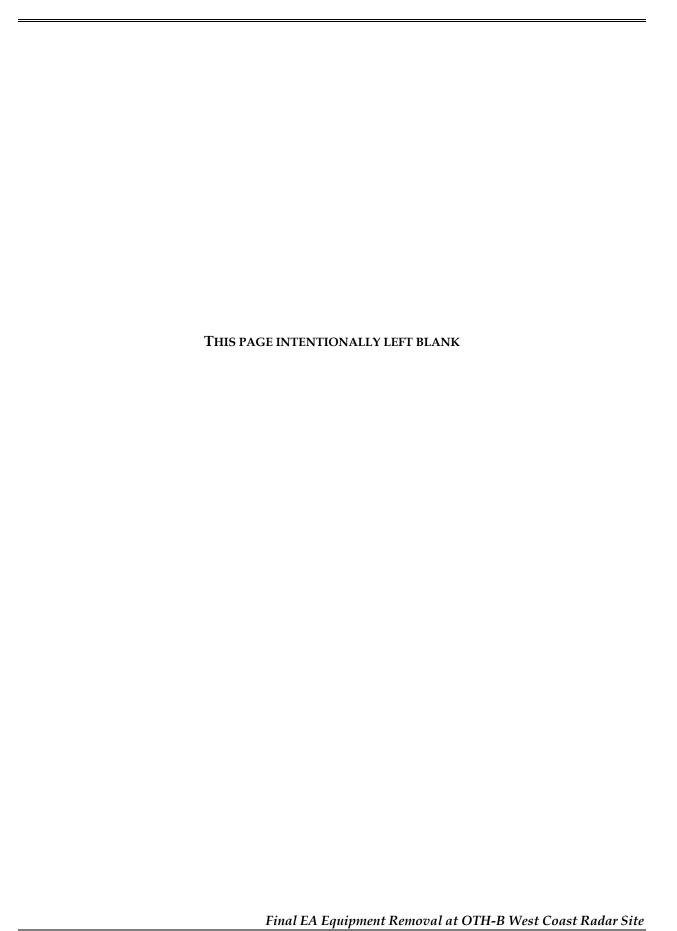


A-4 Appendix A



Final EA Equipment Removal at OTH-B West Coast Radar Site

Appendix A A-5



A-6 Appendix A

APPENDIX B
INTERAGENCY AND INTERGOVERNMENTAL
COORDINATION FOR ENVIRONMENTAL PLANNING
(IICEP) AND COMMENT LETTERS



# DEPARTMENT OF THE AIR FORCE HEADQUARTERS AIR COMBAT COMMAND

LANGLEY AIR FORCE BASE, VIRGINIA

10 March 2005

HQ ACC/CEVP 129 Andrews Street, Suite 102 Langley AFB, VA 23365-2769

Dear Sir or Madam,

- The United States Air Force, Air Combat Command (Air Force) is preparing an Environmental
  Assessment (EA) to assess the potential environmental impacts of a proposal to remove and scrap
  external radar equipment from the Over-The-Horizon Backscatter (OTH-B) West Coast Sites. In support
  of this process, we request your input in identifying general or specific issues or areas of concern you feel
  should be addressed in the environmental analysis. This action is being proposed since there is no longer
  an operational requirement for the existing OTH-B radar system.
- 2. The proposed action would involve removing antenna structures and antenna lighting poles, ground screens, and facility fencing and posts, and processing the components as scrap metal. In addition to the proposed action, the Air Force will also analyze five equipment disposal alternatives and the no action alternative. The two sites in this project are the Christmas Valley, Oregon Transmitter Site and the Tulelake, California Receiver Site. The attachment is a map that provides an overview of the sites.
- 3. Please forward any identified issues or concerns to Mr. Mike Jones, the OTH-B EA Project Manager, at the above address. We cordially request comments by April 1, 2005.

Sincerely

ALTON CHAVIS

alter Chairs

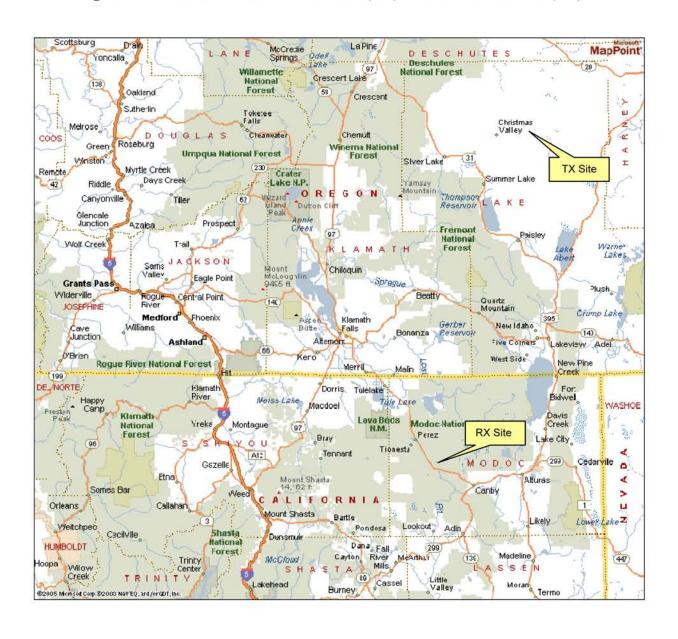
Acting Deputy Chief, Environmental Division (A-75)

Directorate of the Civil Engineer

Attachment:

Map of West Coast Sites

Figure 1-1. General Location of Receiver (RX) Site and Transmitter (TX) Site



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### United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Lakeview Resource Area 1301 South G Street Lakeview, Oregon 97630 www.or.blm.gov/lakeview



In Reply Refer To: 2310 (015)

June 6, 2005

Mr. Michael Jones HQ ACC/CEPP 129 Andrews Street, Suite 102 Langley Air Force Base, VA 23665-2769

Dear Mr. Jones:

This letter has been prepared to provide you with comments on the Over-the-Horizon Backscatter External Equipment Removal EA (dated May 2005). As you know, the area currently occupied by the Christmas Valley, OR site is comprised of lands administered by the Lakeview District, Bureau of Land Management (BLM) that were formally withdrawn for military purposes in 1989. My comments will focus on planned activities at the Christmas Valley site.

On page 2 of the Draft FONSI, grazing section, it states that the Proposed Action - Option 2 would leave unfilled fence post holes causing a potential hazard. It also assumes that livestock grazing is only an issue at the Tulelake site. This is incorrect. The Christmas Valley site was formerly part of a large grazing allotment (#10103). The area was removed from grazing when the area was withdrawn. Removing the fence will allow livestock from the surrounding allotment to wander freely over this area. Not filling in the post holes could result in a significant risk of injury to livestock, big game wildlife species, and humans. For this reason, any alternative involving fence post removal should include an appropriate mitigation measure of backfilling the holes with clean fill material. In addition, the source of the fill material needs to be identified and potential impacts to the borrow site addressed within the EA.

This same comment would apply under the grazing discussions on pages ES-2, ES-3, 2-1, and 4-16 of the EA.

On page 3-11 there is a reference made to the 2X Ranch being the (former) grazing permittee on the Christmas Valley site. This is incorrect. This permittee is the JR Simplot Trust and was formerly called the **ZX** Ranch.

There seems to be a contradiction on page 4-11 (discussing biological impacts of Proposed Action – Option 1 at the Christmas Valley transmitter site). In the second paragraph, second sentence it states that fence post holes would be backfilled with soil from existing stockpiles on-

site. The fourth paragraph, first sentence also implies that post holes would be backfilled. Which is a correct description of the alternative?

If it is undesirable to have open access to the remaining facilities by livestock, wildlife, or people pending complete site restoration or subsequent decisions on other potential uses of the site then the "no fence removal" component of Alternative 1 would appear to be preferable.

The description of the three action alternatives (page 2-1) includes "removal of facility equipment, in accordance with federal and state regulatory ... requirements, to ensure proper handling and disposition of the equipment. Equipment from the facility would be recycled to the greatest extent practicable." This raises the question of where will you dispose of any materials that can not be recycled? The EA should identify where (ie. licensed landfill(s)) and how non-recyclable material will be disposed, even if it is estimated to be a small, incidental amount.

It is unclear from the description of the action alternatives if reseeding of any disturbed areas would be conducted at this point in time. If reseeding is part of your plan, it should be described in Chapter 2 and the seed mix(es) should be specified. I would request that you utilize one of the approved seed mixes listed in Appendix L of the Lakeview Resource Management Plan/Record of Decision (2003), pages A-170 to A-171 at the Christmas Lake site. These seed mixes emphasize native species and are designed for various soil types.

I appreciate this opportunity to comment on this proposal. If you have any questions concerning these comments, please contact me at (541) 947-2177.

Sincerely,

Thomas E. Rasmussen, Manager

Thomas & lasmuse

Lakeview Resource Area

PW\_ptEA\_comments.doc

P.O. Box 369 Hwy 139 Tulelake, CA 96134 (530) 667-2246 TTY (530) 667-2246

File Code: 2210

Date: June 6, 2005

HQ ACC/CEPP (Mr. Michael H. Jones) 129 Andrews Street, Suite 102 Langley AFB, VA 23665-2769

Dear Mr. Jones:

This letter is in response to your EA for the Equipment Removal at Over-the-Horizon Backscatter (OTHB) Radar – West Coast Facilities (receiver site) outside of Tulelake, California.

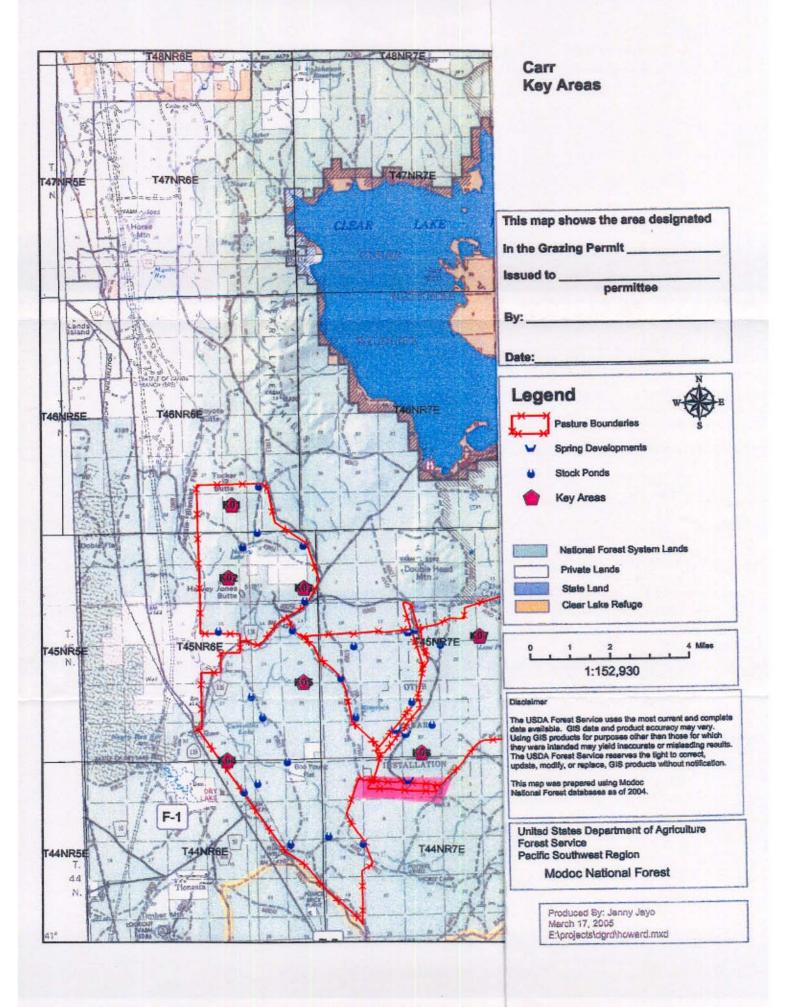
Prior to the installation of the Sector 6 fence, there was a cattle allotment boundary fence separating the Potters Allotment to the south and the Perez and Dalton Allotments (now the Carr Allotment) to the north (see enclosed map). This fence will need to be replaced and I believe the Air Force should provide the fencing materials to do this. Also, since the installation of the OTHB, the Doublehead Ranger District has made a separate grazing unit out of the original Rimrock unit. We plan to refence after demolition of the Sector 4 and 5 fences with our materials.

Sincerely,

LAURENCE CRABTREE Acting District Ranger

Enclosure

cc: Robert A. Byrne, Co.



----Original Message----

From: Kathleen Sevy [mailto:ksevy@fs.fed.us]

Sent: Wednesday, June 08, 2005 1:31 PM

To: Jones Michael H Civ ACC/CEPP

Cc: Laurence Crabtree Subject: Revised comment

Mike,

I just had a discussion with District Ranger Laurence Crabtree. We would like the Air Force to rebuild the fence along Sector 6 (old allotment boundary fence), not just provide materials.

Also, I was informed that the Modoc County Board of Supervisors sent in a comment letter to the Forest Supervisor Stan Sylva. Did you happen to get a copy of this letter? If not the Forest can fax their comments to you. If you want this information please provide your fax number.

Sincerely, Kathy Sevy

Kathleen Sevy Modoc National Forest P.O. Box 369; Tulelake, CA 96134 (530) 667-8620; office 667-2246

Fax: (530) 667-8609 email: ksevy@fs.fed.us



## United States Department of the Interior

# A SHANGA TAKE

#### FISH AND WILDLIFE SERVICE

Klamath Falls Fish and Wildlife Office 6610 Washburn Way Klamath Falls, Oregon 97603 (541) 885-8481 FAX (541)885-7837

Mr. Michael H. Jones HQ ACC/CEPP 129 Andrews Street, Suite 102 Langley AFB Va. 23665-2769

Subject: Over-the-Horizon Backscatter (OTH-B) External Equipment Removal Environmental

Assessment (EA)

Dear Mr. Jones:

The U.S. Fish and Wildlife Service (Service) has reviewed the above referenced Environmental Assessment. These comments have been prepared under the authority of and in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321et seq.). This letter does not address species federally listed under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.). If the Air Force determines, based on a Biological Assessment or evaluation, that a federally listed threatened or endangered species and/or critical habitat may be affected by the project, the Air Force is required to consult with the Service following the requirements of 50 CFR 402 which implement the Endangered Species Act.

The Over-the-Horizon Backscatter External Equipment Removal Project (Project) is located in T45N R7E Sections 16, 21, 27, 28, 29, 32, 33, 34, and T44N R7E Sections 3, 4, 5 on the Modoc National Forest in Modoc County, CA.

The Project is located within areas of jurisdiction of two separate Service offices. The Christmas Valley area is within the area of responsibility of the Bend Field Office, located in Bend, Oregon. Tulelake is in the area of responsibility of the Klamath Falls Fish and Wildlife Office. As a result of this organization there will be two letters regarding comments on this proposed action, one covering Tulelake, issued by the Klamath Falls Fish and Wildlife Office, and one covering the Christmas Valley site, issued by the Bend Field Office.

#### PROJECT DESCRIPTION

The Air Force proposes to remove external radar equipment and fences from the OTH-B West Coast Radar System. These components would include the existing radar screens, wave guides, balun domes, ground screens, and wood security fences at the transmitter site in Christmas Valley, Oregon and the receiver site in Tulelake, California. The North American Aerospace



2

Defense Command (NORAD) indicated that the Government has no operational requirement for the existing FPS-118 OTH-B Radar System in a letter dated June 13, 2002. The Tulelake receiver site includes:

- o About 2,800 acres leased from Modoc National Forest, Doublehead Ranger District
- o Three antennae sectors each 8000 feet long (24,000 feet total)
- o 134 steel towers 65 feet tall by 60 feet apart (402 total)
- o Metal ground screen 1000 feet in front of towers covering 154 acres (462 acres total)
- o 19,280 feet of 8 foot tall wood fence (57,480 feet total)

#### Removal would include:

- o (40) 40,000 lb truckloads of steel from the towers
- o (145) 40,000 lb truckloads of wood fence materials
- o (100) 40,000 lb truckloads of metal ground screen

#### These items would not be removed under this action:

- o 11 miles of gravel road would be left in place
- o The 3 phase powerline leading to site would be left in place
- 41 vernal pools totaling 5.5 acres were created to replace 26 natural pools lost during construction
- o 4 additional sites totaling 1.09 acres were restored or enhanced

The Air Force determined in the EA the following would occur due to implementation of the action: 1) no significant adverse effects to individual native plants or animals would occur; 2) no impacts to wetlands are anticipated because there are no wetlands present within the project footprints; 3) no threatened endangered, or special status species would be adversely affected; 4) listed, proposed, or candidate species are not likely affected at the site; and 5) no significant adverse environmental consequences are anticipated.

Habitat in the Project area is transitional between sagebrush scrub and western juniper forest, which has been increasing due to fire suppression and other factors. The area has several vernal pools and associated vegetation. No streams or other watercourses are present.

The area supports numerous wildlife typical of the Modoc plateau, including mule deer, pronghorn antelope, black bear, mountain lions, coyote, bobcat, badger and weasel. Small mammals include black-tailed jackrabbits, Nuttall's cottontail rabbits, woodrats, chipmunks, northern pocket gophers, and deer mice. Reptiles include sagebrush lizards, gopher snakes and rattlesnakes.

Bird species frequenting the area include: red-tailed hawk, American kestrel, golden eagle, sage grouse, Brewers sparrow, loggerhead shrike, mourning dove, common raven, scrub jay, Pinyon jay, northern flicker, American robin, western bluebirds, yellow-rumped warbler, and cedar waxwing. Waterfowl do not frequent the area except for migratory flight. No federally listed species were identified in the project area.

#### QUESTIONS

Who owns the powerline?

Would there be an opportunity to use the powerline for other uses?

Is the existing fence a barrier to deer and other wildlife?

Is there an option to leave the portion of fence that serves as a pasture boundary instead of building another fence in its place? Maybe leave just the posts since they don't need the eight foot tall fence for cattle?

Can the fence be left in place until the site has recovered from the removal activities? Will this action change the grazing numbers or length of use?

#### FISH AND WILDLIFE SERVICE RECOMMENDATIONS

Based on the review of the draft environmental assessment, the Service has the following comment(s):

- o Removal of the antennae structure may be expected to result in a benefit to migratory birds, particularly those that tend to migrate during night conditions when visibility is low. The Service supports removal of aerial antennae support structures which may impact migratory birds due to collision.
- Removal of fences may be beneficial to wildlife species such as deer, which may be blocked by the fences.
- Care should be used to cause the least amount of ground disturbance necessary to achieve the desired objective.

The Service is obliged to maintain a complete administrative record of the project. Therefore, we respectfully request that the Air Force provide us with a copy of the record of the final EA and record of decision for this project. Thank you for the opportunity to provide these comments. Please contact Rick Hardy (541-885-8481) if you have any questions or concerns regarding this letter.

Sincerely,

Curt Mullis Field Supervisor

#### **United States Department of Agriculture**



Natural Resources Conservation Service P.O. Box 1180 611 Main ST Tulelake, CA 96134

#### America's Conservation Agency

June 6, 2005

Mr. Mike Jones HQ ACC/CEVP 129 Andrews Road, Suite 102 Langley Air Force Base, VA 23365-2769

Re: Conversion of Tulelake Backscatter Radar Station to a Solar Power Source

Dear Mr. Jones,

The Natural Resources Conservation Service supports the conservation of energy that this proposed project represents and the potential associated water savings.

The need for a reasonable power source and the opportunity that creates to effectively manage the water resources of the Klamath Basin is an important and well documented resource issue in the headwaters of the Klamath River. Our agency actively supports such projects as a significant contribution to resource management and conservation.

In addition to the conservation aspects and the commitment of the local people to this proposal, there is a distinct benefit to the economy of the upper Klamath River Basin and its people.

We look forward to the support that you and your agency can provide in assisting those who have so diligently worked toward managing and maintaining the natural resources and economy of our area.

Sincerely,

Géne R. Kelley, District Conservationist Tulelake River Basin Project Office

Cc: Mr. Stephen Hinds, Lava Beds/Butte Valley Resource Conservation District



#### Arnold Schwarzenegger Governor

#### STATE OF CALIFORNIA

## Governor's Office of Planning and Research State Clearinghouse and Planning Unit



Sean Walsh Director

June 8, 2005

Sheryl K. Parker U.S. Air Force 129 Andrews Street, Suite 102 Langley AFB, CA 23665-2769

Subject: Equipment Removal at Over-the-Horizon Backscatter Radar-West Coast Facilities

SCH#: 2005054001

Dear Sheryl K. Parker:

The State Clearinghouse submitted the above named Environmental Assessment to selected state agencies for review. The review period closed on June 7, 2005, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act.

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

Terry Roberts

Director, State Clearinghouse

#### Document Details Report State Clearinghouse Data Base

SCH# 2005054001

Project Title Equipment Removal at Over-the-Horizon Backscatter Radar-West Coast Facilities

Lead Agency U.S. Air Force

Type EA Environmental Assessment

Description The Proposed Action consists of the disassembly of a total of 549 metal antenna structures, 717 acres

of metal ground screen, and 115,764 linear feet of wood fence and posts from the Tulelake, California and Christmas Valley, Oregon radar sites. At the radar transmitter site in Christmas Valley, Oregon, 45 miles of 3 to 6 inch diameter copper wave-guide tube and balun domes would also be removed. Existing access roads, water systems, electrical lines and buildings would not be disturbed at either

Fax

radar site.

**Lead Agency Contact** 

Name Sheryl K. Parker

Agency U.S. Air Force

Phone (757) 764-9334

email

Address 129 Andrews Street, Suite 102

City Langley AFB State CA Zip 23665-2769

**Project Location** 

County Modoc

City

Region

Cross Streets

Parcel No.

Township Range Section Base

Proximity to:

Highways

**Airports** 

Railways

Waterways

Schools

Land Use

Project Issues Agricultural Land; Air Quality; Archaeologic-Historic; Biological Resources; Geologic/Seismic

Reviewing Agencies Resources Agency; Regional Water Quality Control Bd., Region 5 (Redding); Regional Water Quality Control Board, Region 1; Department of Parks and Recreation; Native American Heritage Commission

Office of Historic Preservation; Department of Forestry and Fire Protection; Department of Fish and Game, Region 1; Department of Water Resources; Caltrans, District 2; Caltrans, Division of

Aeronautics

Date Received 05/06/2005

Start of Review 05/06/2005

End of Review 06/07/2005

Note: Blanks in data fields result from insufficient information provided by lead agency.

STATE OF CALIFORNIA

Arnold Schwarzenegger Governor

NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-4082 (916) 657-5390 - Fax



June 7, 2005

NAHC

Ms. Sheryl Parker U.S. Dept. Of the Air Force HQ ACC/CEPP 129 Andrews St., Suite 102 Langley AFB, VA 23665-2769

Re: Equipment Removal at Over-the-Horizon Backscatter Radar-West Coast Facilities

SCH# 2005054001

Dear Ms. Parker:

Thank you for the opportunity to comment on the above referenced document. The Commission was able to perform a record search of its Sacred Lands File for the project area which revealed the potential presence of Native American cultural resources within the project area. The exact location of sites recorded on the Sacred Lands File is confidential, however, the following individual may be able to provide you with information concerning sacred sites in the project area and assist in the development of mitigation measures:

c/o Pit River Tribe Cultural Resources 37014 Main St., Burney, CA 96013 Mr. Floyd Buckskin Tribal Office phone: (530) 335-5421

Included in federal agencies' responsibilities under Section 800.2 of the Federal Section 106 process (36 CFR PART 800) is the requirement that agencies consult with Native American tribes in order to provide them with "a reasonable opportunity to identify (their) concerns about historic properties, advise on the identification and evaluation of historic properties, including those of traditional religious and cultural importance, articulate (their) views on the undertaking's effects on such properties, and participate in the resolution of adverse effects. Enclosed is a list of Native American individuals/organizations who may have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. The Commission makes no recommendation of a single individual or group over another. By contacting all those listed, your organization will be better prepared to address claims of failure to consult with the appropriate tribe or group. A minimum of two weeks must be allowed for responses following notification. If there has been no response following the two week period, we recommend that you follow-up by telephone to ensure that the information was received.

Lack of surface evidence of archeological resources does not preclude the existence of archeological resources. Lead agencies should include provisions for accidentally discovered archeological resources during construction as well as the process to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery and should be included in all environmental documents. If you have any questions, please contact me at (916) 653-6251.

Janta L

Sincerely.

Carol Gaubatz

Program Analyst

State Clearinghouse cc:

#### Native American Contacts

Modoc County June 7, 2005

Jturas Rancheria of Pit River Indians

Alturas Rancheria of Pit River Indians

Astarawi Band, Pit River Indians

Vendy Del Rosa, Chairperson

Zalynn Baker

'.O. Box 340

Pit River

30454 Carberry St.

Astarawi

lturas

, CA 96101

Achomawi - Atsugewi Burney

, CA 96013

Pit River

wamarcus@aol.com

530) 233-5571

530) 233-4165 Fax

Atwamsini Band, Pit River Indians

Creig Marcus, Tribal Administrator/Environmental

Pit River

Wally Preston P.O. Box 1315

Atwamsini

2.O. Box 340 Alturas

, CA 96101

Achomawi - Atsugewi Alturas

, CA 96101

Pit River

iwamarcus@aol.com

530) 233-5571

530) 233-4165 Fax

Alturas Rancheria of Pit River Indians

Atwamsini Band, Pit River Indians

/i Riley, Cultural Reosurces Coordinator

3.O. Box 340

Pit River

Mary Preston P.O. Box 1315

Atwamsini

Alturas

, CA 96101

Achomawi - Atsugewi Alturas

, CA 96101

Pit River

iwamarcus@aol.com

530) 233-5571

(530) 233-4165 Fax

Atwamsini Band, Pit River Indians

P.O. Box 513

Astarawi Band, Pit River James Wright

Herb Quinn

Atwamsini

P.O. Box 413 Round Mtn.

Astarawi Pit River , CA 95034

Alturas

, CA 96056

Pit River

Astarawi Band, Pit River Indians

Patricia Preston

Astarawi

Pit River Tribe Environmental Office

Sharon Elmore, Cultural Information Officer

37014 Main Street

Pit River

P.O. Box 1453 Alturas , CA 96101 Pit River

Burney CA 96013

ajumawi@frontier.net (530) 335-5062, Ext. 2

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resource assessment for the proposed Equipment Removal at Over-the-Horizon Backscatter Radar - West Coast Facilities, SCH# 2005054001, Modoc County.

#### Native American Contacts Modoc County June 7, 2005

it River Tribe of California essica Jim, Chairperson

7014 Main Street

, CA 96013

Pit River

Achumawi - Atsugewi

Wintun

530) 335-5421 530) 335-3140 Fax

it River Tribe of California
Llexis Barry, Tribal Administrator

17014 Main Street

Pit River

**3urney** 

lurney

, CA 96013

Achomawi - Atsugewi

Wintun

530) 335-5421

530) 335-3140 Fax

Pit River Tribe of California

Vichelle Berditschevsky, Environmental Coordinator

37014 Main Street

Pit River

**3urney** 

, CA 96013

Achomawi - Atsugewi

Wintun

(530) 335-5062

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Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resource assessment for the proposed Equipment Removal at Over-the-Horizon Backscatter Rader - West Coast Facilities, SCH# 2005054001, Modoc County.

#### Lava Beds -Butte Valley Resource Conservation District PO Box 861, 611 Main Street Tulelake, CA 96134-0861

Phone: (530) 667-3473 Fax: (530) 667-3125

June 6, 2005

Mike Jones 129 Andrews St. Suite 102 Langley AFB, VA 23365-2769

Re: Environmental Assessment for Equipment Removal at Over-The-Horizon-Backscatter Radar-West Coast Facilities

Dear Mr. Jones,

I am writing in regards to the removal of the Backscatter Radar facility located in Modoc County near Tulciake, CA. We at the Lava Beds-Butte Valley RCD would like to suggest that a feasibility study be made of the facility to convert it into an alternative energy producing site. It would be a shame to dismantle something of this magnitude without being able to use it for something beneficial.

Sincerely,

Michael Byrne

District Chairman

# Tulelake Irrigation District

P. O. Box 699 \* 2717 Havlina Road \* Tulclake, CA 96134 Phone: 530-667-2249 \* Fax: 530-667-4228 \* Email: tid@cot.net l. in L. Dansoly, Manager Gerald D. Pyle, And Nige Grace E. Phillips, Office Mar Edward J. Halley, President Junes F. Haslina, V. President John F. Cranford, Director William J. Helacy, Director Gary A. Wright, Director

June 6, 2005

Mike Jones 129 Andrews Street, Suite 102 Langley AFB, VA 23365 2769

Re: Environmental Assessment for Equipment Removal at Over-The-Horizon-Backscatter Redar-West Coast Facilities:

Dear Mr. Jones,

I am writing in regards to the removal of the Backscatter Radar Facility located in Modoc County near Tuletake, CA. We at the Tuletake Irrigation District would like to support the suggestion of the Lava Bods-Butte Valley RCD that a feasibility study be made of the facility to convert it into an alternative energy-producing site. It would be a shame to dismantle a facility of this magnitude and disregard its potential for being put to beneficial use.

Sincerely,

Farl C. Danosky, Manager

DAN MACNAY Int District

MICHAEL DUNN 2nd District

PATRICIA CANTRALL

KAY ANKLIN

DAVE BEADSHAW



MAXINE MADISON
County Clork
And
Cork of the
BDARD OF SUPERVISORS

But 136 ALTURAS, CALIFORNIA WISE

> (\$50) 113-6501 Per (\$50) 133-1434

HQ ACC/CEPP (Mr. Michael H. Jones) 129 Andrews Street Suite 102 Langley, AFB VA 23665-2769

Dear Mr. Jones:

The Modoc County Board of Supervisors would like you to consider possible alternative uses of the Over-The-Horizon (OTHB) Tulclake Receiver site before a final decision is made on the sites removal.

We would like you to explore an alternative that would create a renewable energy source that would benefit from the existing infrastructure. Also please consider that the removal of the fencing would adversely impact the grazing permittees as the fence currently serves as the grazing allotment boundary fence.

If we can provide an information or assistance please contact the Modoc County Board of Supervisors. We see this as an opportunity to increase supplies of renewable energy and at the same time benefit the economy of the area.

Thank you for your consideration.

Sincerely,

David R. Bradshaw, Chairman

Modec County Board of Supervisors

# June 3, 05

TO: Steve Hinds, Program Manager OTHB

From : Mode County Board of Supervisors

Subject: OTH-B External Equipment Removal Environmental Assessment(EA)

These comments are regarding the OTH-BEA.

at the Tulelake Receiver site. We also mailed same letter on Juni 2,05, and just wanted from the Tour scot to be sore our comments ment the 7 Juni scot dead line.

Dave Brudshaw Board Chairman.



#### Klamath Water Users Association

2455 Patterson Street, Suite 3 \*\*\* Klamath Falls, OR 97603 (541) 883-6100) \* FAX (541) 883-8893 \* kwua@cvcwireless.net

#### SUBMITTED VIA ELECTRONIC MAIL - 6-Jun-05

June 6, 2005

Mr. Mike Jones OTH-B EA Project Manager HQ ACC/CEVP 129 Andrews Street, Suite 102 Langley AFB, VA 23365-2769

RE: Comments on Draft Environmental Assessment for Equipment Removal at Over-the-Horizon Backscatter Radar – West Coast Facilities

Dear Mr. Jones;

I am writing on behalf of the Klamath Water Users Association (KWUA). We would like to thank you for the opportunity to comment on the draft Environmental Assessment (EA) for Equipment Removal at the OTH Backscatter – West. KWUA is a non-profit organization representing rural and suburban irrigation districts and other public agencies as well as private entities that operate on both sides of the California/Oregon border. We represent 5,000 water users, including 1,400 family farms and ranches that encompass over 200,000 acres of irrigated farmland.

As you know, affordable and reliable power supplies are a critical component of pumping water for irrigation. Circumstances in the Klamath Basin are such that the need to identify new sources of power generation is becoming vital. There are processes underway to look at a variety of alternative forms of power. Preliminary studies show that because the Klamath Basin enjoys an average of 300 days of sunshine each year, the most promising form of alternative power may be solar. While the process is just beginning, there appears to be serious interest from a variety of stakeholders, particularly the states of Oregon and California, in looking at potential sites for a solar power array. There has also been interest from members of Congress in looking at these options for both the transmitter site near, Christmas Valley, OR as well as for the receiver site, near Tulelake, CA.

June 6, 2005 Page 2 of 2

The OTH-B West Coast Radar System Receiver site, near Tulelake, California has drawn considerable interest as a potential alternative power centralized site. KWUA would like to formally request that an additional alternative be considered in the final EA. We would like consideration of holding the facility until such time that the proper feasibility studies could be completed to determine the likelihood that this site could support an alternative energy facility.

In the event that it is not prudent to include an additional alternative into the final EA, we support the no-action alternative until such time that the proper studies regarding alternative power generation can be completed. I believe a two to three year commitment of holding the facilities as is, would provide enough time for studies and details to be worked out.

The potential upside of such a project is enormous. The facility is connected to power lines that have the potential ability to feed solar generated power at the site back into the local power grid, delivering renewable power to industry and communities. In addition, there are potential savings to the military as well as development of a publicly supported and environmentally friendly source of power. There appear to be significant resources available for the research and development of alternative power sources. We believe it may well be in the best interest of the USAF as well as to the public in general to look into this proposal.

Thank you for your consideration in this matter. I apologize for commenting to you so late in the process.

Respectfully,

Greg Addington Executive Director

cc:

Congressman Greg Walden Congressman John Doolittle Chief Dale Bosworth, USFS Modoc County Board of Supervisors Robert A. Byrne Co. 3710 County Road 114 Tulelake, California 96134 541-892-0504 Mike 541-891-5681 Dan June 6, 2005

Mr. Mike Jones OTH-B EA Project Manager HQ ACC/CEVP 129 Andrews Street, Suite 102 Langley AFB, VA 23365-2769

Dear Mr. Jones:

Robert A. Byrne Co.(Rabco) commented your March 10 2005 letter. We have attached those comments below for ease of reference.

The statement that "Replacement of the fence would not be the responsibility of the Air Force; however, the Air Force will work with the USFS and their grazing permittee(s) to coordinate the timing of the fence removal in order to limit the amount of disturbance to grazing operations." is problematic.

The allotment boundary fences were intact and in place when the Air Force selected the area for the radar site.

Rabco expended both financial and human capital complying with the Air Forces needs. The process of relocating and reconstructing the fences while complying with the environmental constraints was not only tedious, but consumed large amounts of time and financial resoures of Rabco.

The Air Force should be prepared to fund the environmental studies and fence relocation cost since the Air Force is reason that this process is occurring. Rabco supports studying the existing site for an alternative energy site. The alternative energy site may preclude the need to remove the existing fence pending the results of the study.

Rabco supports Alternative One pending a decision on conversion of the site to an alternative energy facility. If that decision is to abandon the facility, we support replacement of the wooden fencing with a Modoc National Forest standard wire fence.

Thank you for the opportunity to comment on the draft Ea. Rabco looks forward to working with you.

Sincerely,

Michael Byrne

For Robert A. Byrne Co.



# United States Department of the Interior



#### FISH AND WILDLIFE SERVICE

#### Bend Field Office 20310 Empire Avenue, Suite A100 Bend, Oregon 97701

(541) 383-7146 FAX: (541) 383-7638

File Number: 4355.0006 (05) Tracking Number: 05-2140

June 7, 2005

HQ ACC/CEPP (Mr. Michael H. Jones) 129 Andrews Street, Suite 102 Langley AFB Va. 23665-2769

Subject: Over-the-Horizon Backscatter (OTH-B) External Equipment Removal Environmental Assessment (EA)

Dear Ms. Parker:

The U.S. Fish and Wildlife Service (Service) has reviewed the above referenced Environmental Assessment. These comments have been prepared under the authority of and in accordance with the National Environmental Policy Act of 1969 (42 U.S.C. 4321et seq.). This letter does not address species federally listed under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.). If the Department of the Air Force (Air Force) determines, based on a Biological Assessment or evaluation, that a federally listed threatened or endangered species and/or critical habitat may be affected by the project, the Air Force is required to consult with the Service following the requirements of 50 CFR 402 which implement the Endangered Species Act.

The proposed action is located within areas of jurisdiction of two separate Fish and Wildlife Service offices. The Christmas Valley area is within the area of responsibility of the Bend Field Office, located in Bend, Oregon. Tulelake is in the area of responsibility of the Klamath Falls Fish and Wildlife Office. As a result of this organization there will be two letters regarding comments on this proposed action, one covering Tulelake, issued by the Klamath Falls Fish and Wildlife Office, and one covering the Christmas Valley site, issued by the Bend Field Office.



#### PROJECT DESCRIPTION

The Air Force is proposing to disassemble 549 metal antenna structures, 717 acres of metal ground screen and 115,764 linear feet of wood fence and posts from the Tulelake and Christmas Valley, OR radar sites. At the transmitter site in Christmas Valley, Oregon, 45 miles of 3 to 6 inch diameter copper wave guide tubes would also be removed.

The Air Force determined in the EA the following would occur due to implementation of the action: 1) no significant adverse effects to individual native plants or animals would occur; 2) no impacts to wetlands are anticipated because there are no wetlands present within the project footprints; 3) no threatened endangered, or special status species would be adversely affected; 4) listed, proposed, or candidate species are not likely affected at the site; and 5) no significant adverse environmental consequences are anticipated.

#### FISH AND WILDLIFE RESOURCES

Habitat in the Christmas Valley area consists of rangeland dominated by shrub steppe vegetation. No streams or other water bodies are present. Bird species frequenting the area include: Brewers sparrow, sage sparrow, horned lark, common raven, sage thrasher, northern shrike, red-tailed hawk, American kestrel, and northern harrier. Waterfowl do not frequent the area except for migratory flight. Mule deer and pronghorn antelope are known to be present in the area, primarily in the agricultural fields nearby. No migration routes have been identified. No federally listed species were identified in the project area.

#### FISH AND WILDLIFE SERVICE RECOMMENDATIONS

Based on the review of the environmental assessment, we believe that removal of antennae structures and fences may provide some benefits to migratory birds and wildlife. The Service supports removal of aerial antennae support structures which may impact migratory birds due to collision, particularly those that tend to migrate during night conditions when visibility is low. Additionally, removal of fences may be beneficial to bird species such as sage grouse, which may collide with lower obstructions such as fences.

Thank you for the opportunity to provide these comments. If you have any questions, please contact me or Alan Mauer at (541) 383-7146. Please provide us with a copy of the Final EA and record of decision for this project.

Sincerely,

Mancy Silbert
Nancy Gilbert
Field Supervisor



# FALLON PAIUTE-SHOSHONE TRIBE

June 15, 2005

Mike Jones, OTH-B EA Project Manager HQ ACC/CEVP 129 Andrews Street, Suite 102 Langley AFB, VA 23365-2769

RE:

- 1. EA Over-the-Horizon Backscatter West Coast Sites
- 2. Christmas Valley, OR Transmitter/Tulelake, CA Receiver Site

Dear Mr. Jones,

I apologize for the delay in responding to your March 18, 2005 letter to the our Tribe regarding the about projects. I have reviewed the documentation provided to the Fallon Paiute Shoshone Tribe regarding the above projects and at this time the Fallon Paiute Shoshone Tribe does not have an immediate concern with the projects as proposed. In the event that an inadvertent discovery is made we request that the Fallon Paiute Shoshone Tribe **OR** the Tribe in the closest proximity be contacted <u>immediately</u> and that all work cease until Tribal clearance is given. In the event that another Tribe is contacted we request written notification of such action. Please feel free to contact me at (775) 423-6075 ext. 246 if you have any further questions or require additional information.

Sincerely,

Rochanne L. Downs, Cultural Resources Director

Fallon Paiute Shoshone Tribe



#### **AIR QUALITY**

This appendix presents an overview of the Clean Air Act (CAA) and the State of California and Oregon air quality programs. The appendix also discusses emission factor development and calculations including assumptions employed in the air quality analyses presented in the Air Quality sections of Chapter 3 and 4.

#### **Air Quality Program Overview**

In order to protect public health and welfare, the USEPA has developed numerical concentration-based standards or NAAQS for six "criteria" pollutants (based on health related criteria) under the provisions of the Clean Air Act Amendments of 1970. There are two kinds of NAAQS: Primary and Secondary standards. Primary standards prescribe the maximum permissible concentration in the ambient air to protect public health including the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards prescribe the maximum concentration or level of air quality required to protect public welfare including protection against decreased visibility, damage to animals, crops, vegetation, and buildings (Government Printing Office, n.d.).

The CAA gives states the authority to establish air quality rules and regulations. These rules and regulations must be equivalent to, or more stringent than, the Federal program. The receiver (RX) site is under the jurisdiction of the California Air Resources Board (CARB) and the Modoc County Air Pollution Control District (MCAPCD). The transmitter (TX) site is under the jurisdiction of the Oregon Department of Environmental Quality (ODEQ), Eastern Division.

Oregon has adopted the NAAQS except for sulfur dioxide ( $SO_{2}$ ). USEPA has set the annual and 24-hour standards for  $SO_2$  at 0.03 parts per million (ppm) (80 micrograms per cubic meter [ $\mu g/m^3$ ]) and 0.14 ppm (365  $\mu g/m^3$ ) respectively. Oregon has adopted the more stringent annual and 24-hour standards of 0.02 ppm ( $60~\mu g/m^3$ ) and 0.1 ppm ( $260~\mu g/m^3$ ) respectively. In addition, Oregon has implemented a 0.050 ppm exceedance level as the  $SO_2$  3-hour standard. California has implemented more stringent standards for all the criteria pollutants. The Federal, California, and Oregon States ambient air quality standards are presented in Table C-1.

Based on measured ambient air pollutant concentrations, the USEPA designates areas of the United States as having air quality better than (attainment), worse than (nonattainment) the NAAQS, and unclassifiable. Those that cannot be classified on the basis of available information as meeting or not meeting the NAAQS for a particular pollutant are "unclassifiable" and are treated as attainment until proven otherwise. Attainment areas can be further classified as "maintenance" areas. These "attainment" maintenance areas are those areas previously classified as nonattainment that have successfully reduced air pollutant concentrations below the standard. Maintenance areas are under special guidance plans and must operate under some of the nonattainment area plans to ensure compliance with the NAAQS. Modoc County, California is a Federal attainment area but is a non-attainment area by

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the state's standards (Haas, 18 March 2005). Lake County, Oregon is a moderate nonattainment area for  $PM_{10}$  (USEPA, 2004).

Table C-1. Summary of National and State Ambient Air Quality Standards

Pollutant	Pollutant Averaging Time		Federal ppm <sup>1, 2, 3, 4</sup>	Oregon ppm <sup>2, 4</sup>
Ozone (O3)	1 Hour	0.09	0.126	0.12
Ozofie (O3)	8 Hour		$0.08^{7}$	
	24 Hour	50 ug/m³	$150 \text{ ug/m}^{3.5,8}$	150 ug/m³
Particulate Matter (PM10)	Annual Arithmetic Mean	20 ug/m³	50 ug/m³	50 ug/m³
Eine Poutioulete Metter (DM2 5)	24 Hour	No Separate State Standard	65 ug/m³ <sup>9</sup>	
Fine Particulate Matter (PM2.5)	Annual Arithmetic Mean	12 ug/m³	15 ug/m³	
	8 Hour	9	9	9
Carbon Monoxide (CO)	1 Hour	20	35	35
Carbon Worldxide (CO)	8 Hour (Lake Tahoe)	6		
Nitrogen Dioxide (NO2)	Annual Arithmetic Mean		0.053	0.053
	1 Hour	0.25		
	Annual Arithmetic Mean		0.03	0.02
Sulfur Dioxide (SO2)	24 Hour	0.04	0.14	0.1
	3 Hour			0.05
	1 Hour	0.25		
Lead	30 Day Average			
Commercial	Calendar Quarter		1.5 ug/m³	1.5 ug/m³

Source: California Air Resource Board (CARB), July 2003., and Barnack, 2005

- 1. National standards (other than ozone, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once a year.
- 2. Concentration expressed in equivalent units based upon a reference temperature of 25°C and a reference pressure of 760 mm of mercury; ppm refers to parts per million by volume.
- 3. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public
- 4. ppm = parts per million
- 5.  $\mu g/m3 = micrograms per cubic meter$
- 6. The ozone one-hour standard still applies to areas that were designated nonattainment when the ozone eight-hour standard was adopted in July 1997. The 1-hour ozone standard is attained when the expected
- 7. The 8-hour ozone standard is attained when the 3-year average of the annual fourth-highest daily maximum 8-hour average is not greater than 0.08 ppm.
- 8. The PM<sub>10</sub> 24-hour standard is attained when 99 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.
- 9. The PM<sub>2.5</sub> 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard.

General conformity analysis is required if the action's direct and indirect emissions have a potential to emit one or more of the six criteria pollutants at or above emission rates shown in

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Table C-2 or Table C-3; or the action's direct and indirect emissions of any criteria pollutant represent 10% of a non-attainment or maintenance area's total emissions inventory for that pollutant. The analysis for this action found the emissions to be less than 10 percent for all the criteria pollutants thus conformity analysis is not required.

Table C-2. Emission Rates for Criteria Pollutants in Nonattainment Areas\*

Pollutant	Emission Rate (tpy)
OZONE (VOCs OR NO <sub>x</sub> )	
Serious Nonattainment areas	50
Severe nonattainment areas	25
Extreme nonattainment areas	10
Other ozone nonattainment areas outside an ozone transport region	100
MARGINAL AND MODERATE NONATTAINMENT AREAS INSIDE AN OZONE TRA	NSPORT REGION
VOC	50
NO <sub>x</sub>	100
CO: All nonattainment areas	
SO <sub>2</sub> or NO <sub>2</sub> : All nonattainment areas	
$PM_{10}$	
Moderate nonattainment areas	100
Serious nonattainment areas	70
Pb: All nonattainment areas	25

Source: U.S. Air Force, No Date

<sup>\*</sup>de minimis threshold levels for conformity applicability analysis.

Table C-3. Emission Rates for Criteria Pollutants in Attainment (Maintenance) Areas\*

Pollutant		Emission Rate (tpy)
Ozone (NO <sub>x</sub> ), SO <sub>2</sub> or NO <sub>2</sub> : All maintenance areas:		100
OZONE (	VOC)	
	Maintenance areas inside an ozone transport region	50
Maintenance areas outside an ozone transport region		100
CO: All maintenance areas		100
PM <sub>10</sub> : All maintenance areas		100
Pb: All maintenance areas		25

Source: U.S. Air Force, No Date

Each state is required to develop a state implementation plan (SIP) that sets forth how CAA provisions will be imposed within the state. The SIP is the primary means for the implementation, maintenance, and enforcement of the measures needed to attain and maintain the NAAQS within each state and includes control measures, emissions limitations, and other provisions required to attain and maintain the ambient air quality standards. The purpose of the SIP is twofold. First, it must provide a control strategy that will result in the attainment and maintenance of the NAAQS. Second, it must demonstrate that progress is being made in attaining the standards in each nonattainment area.

In attainment areas, major new or modified stationary sources of air emissions on and in the area are subject to Prevention of Significant Deterioration (PSD) review to ensure that these sources are constructed without causing significant adverse deterioration of the clean air in the area. A major new source is defined as one that has the potential to emit any pollutant regulated under the CAA in amounts equal to or exceeding specific major source thresholds: 100 or 250 tons/year based on the source's industrial category. A major modification is a physical change or change in the method of operation at an existing major source that causes a significant "net emissions increase" at that source of any regulated pollutant. Table C-4 provides a tabular listing of the PSD significant emissions rate (SER) thresholds for selected criteria pollutants (USEPA, 1990).

<sup>\*</sup>de minimis threshold levels for conformity applicability analysis.

Table C-4. Criteria Pollutant Significant Emissions Rate Increases under PSD Regulations

Pollutant	Emission Rate (tpy)
PM <sub>10</sub>	15
Total Suspended Particulate (TSP)	25
SO2	
NOx	40
Ozone (VOC)	40
CO	100

Source: Title 40 CFR Part 50

The goal of the PSD program is to: (1) ensure economic growth while preserving existing air quality, (2) protect public health and welfare from adverse effects which might occur even at pollutant levels better than the NAAQS, and (3) preserve, protect, and enhance the air quality in areas of special natural recreational, scenic, or historic value, such as national parks and wilderness areas. Sources subject to PSD review are required by the CAA to obtain a permit before commencing construction. The permit process requires an extensive review of all other major sources within a 50-mile radius and all Class I areas within a 62-mile radius of the facility. Emissions from any new or modified source must be controlled using Best Available Control Technology. The air quality, in combination with other PSD sources in the area, must not exceed the maximum allowable incremental increase identified in Table C-5. National parks and wilderness areas are designated as Class I areas, where any appreciable deterioration in air quality is considered significant. Class II areas are those where moderate, well-controlled industrial growth could be permitted. Class III areas allow for greater industrial development. Currently there are no designated Class III areas in the United States.

Table C-5. Federal Allowable Pollutant Concentration Increases Under PSD Regulations

Pollutant	Averaging Time	Maximum Allowable Concentration (μg/m³)			
1 Ottatant	Moeraging Time	CLASS I	CLASS II	CLASS III	
DM	Annual	4	17	34	
$PM_{10}$	24-hour	8	30	60	
	Annual	2	20	40	
SO <sub>2</sub>	24-hour	5	91	182	
	3-hour	25	512	700	
NO <sub>2</sub>	Annual	2.5	25	50	

Source: Title 40 CFR Part 50

 $\mu g/m^3$  = Micrograms per cubic meter

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Since these efforts are associated with construction and mobile source emissions PSD does not apply.

Oregon and California have statewide air quality-monitoring network that are operated by the state environmental programs (Oregon Department of Environmental Quality (ODEQ), 2003 and CARB, 2005). The air quality is monitored for carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter, and sulfur dioxide. The monitors tend to be concentrated in areas with the largest population densities. Not all pollutants are monitored in all areas. The air quality monitoring network is used to identify areas where the ambient air quality standards are being violated and plans are needed to reduce pollutant concentration levels to be in attainment with the standards, also included are areas where the ambient standards are being met but plans are necessary to ensure maintenance of acceptable levels of air quality in the face of anticipated population or industrial growth.

Oregon has monitors in the major cities and multiple communities in Eastern Oregon where data is posted to the DEQ twice daily (http://www.deq.state.or.us/aq/api/index.asp). California has an Air Monitoring Network Plan to coordinate National, State, and Local monitoring data acquisition and can be found on the California Air Quality Data website (http://www.arb.ca.gov/aqd/aqdpage.htm). Lake County, Oregon and Modoc County, California are rural areas and do not have monitoring sites within the county.

#### **Project Air Emission Calculations**

#### **Construction Equipment Emissions on Site**

Emission factors for various construction machinery was obtained from the Mobile Source Emissions Inventory (USEPA, 1991 as sited in U.S. Air Force, 2004). It was assumed that the equipment would be used for six months (130 days) total or three months each site (65 days) 8 hours each day. The number of each type of equipment necessary varies based on the action selected; specifics are outlined in Chapter 2. The types of equipment necessary for the activity includes:

- semi-tractor trailers (for debris removal)
- excavators
- fork lifts
- front end loader
- crane
- other construction equipment

To calculate emissions the following method was applied using as an example the values associated with CO emissions for 1 crane.

CO Emissions = (# pieces of equipmt)\*(days used)\*(hours/day)\*(Emission factor g/hr) = (1)\*(65 days/yr)\*(8 hrs/day)\*(4.20 g/hr)= 2.184 g/yr

Final EA Equipment Removal at OTH-B West Coast Radar Site Appendix C Convert this to tons/yr with the following calculation:

```
CO Emissions = (\text{emission g/yr})^*(\text{ton/907,184 g})
= (2,184 \text{ g/yr})^*(\text{ton/907,184 g})
= 0.002 \text{ tons/yr}
```

This calculation was used for each piece of equipment and each pollutant to get the total emissions.

**Unpaved Road Emissions** 

The emissions factor used for on-site truck traffic is based on the unpaved road equation:

```
E = k (5.9) *(s/12)(S/30)(W/30) .7* (w/4).5
Where k = .36 for PM_{10}
s = silt content (default = 4.8\%)
S = truck speed (default = 20 mph)
W = truck weight (default = 20 tons)
w = truck wheels (default = 18 wheels)
p = number of days with precipitation (default = 0 days)
```

For a demolition site, 18-wheel trucks of mean 20-ton gross weight are estimated to travel 12 miles on-site for each round trip to remove dry debris. With this information and default values for the unpaved road equation, the emission factor for on-site truck traffic becomes:

$$E_T = (1.8) (5.9) *(4.8/12)(20/30)(20/3) .7* (18/4).5 = 22.6 lb/VMT$$

To convert this emissions factor from lb/VMT to lb/yr, the total amount of vehicle miles traveled per year was utilized. In this case it is assumed that in Modoc County, there will be a total of 325 truck loads that will travel 11 miles of unpaved roads.

Therefore, Total VMT = 
$$(325 loads/yr) * (11 miles) = 3,575 VMT/yr$$

The emission factor can be multiplied by the total vehicle miles traveled value to obtain the annual particulate matter emission rate. This can be converted to tons/year by dividing the factor by 2,000, as follows:

$$E_T = (0.226 \text{ lb/VMT}) * (3,575 \text{ VMT/yr}) * (1 \text{ton/2,000 lbs}) = 0.404 \text{ tons/year}$$

Construction Worker Trips

Construction worker trips during the project are calculated by assuming 15 people in option one requires working on site and 12 people working on site in option two for six months (130 days); three months at each site (65 days). It was assumed that the workers would travel four times per day to and from the work site and assuming 1 mile per trip in the site area. Class 1 & 2 vehicles are considered cars and light trucks representing the types of personal vehicles

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driven by the employees. The emissions generated from these time and distance variables were calculated by the following methodology:

```
Total Miles/Year = (# cars) * (# days/yr) * (trips/day) * (miles/trip)
= (12)*(65 days/yr)*(4 trips/day)*(1mile/trip)
= 3,120 miles/yr
```

Using each of the pollutant emission factors (grams/mile) for the appropriate type of vehicle the emissions are calculated and converted to tons/yr. To illustrate this the calculation is completed using the CO emission factor for a class 1 & 2 vehicle (25 g/mi).

```
CO emission in tons/yr = (total miles/yr)*(CO Emission Factor g/mi)*(ton/907,184 g) = (3,120 \text{ mi/yr})*(25 \text{ g/mi})*(ton/907,184 \text{ g}) = 0.0859 \text{ tons/yr} of CO
```

Transporting Construction Equipment from One Site to the Other

All equipment and heavy trucks will be used at both the receiver and transmitter sites. The calculation is based on several assumptions:

- Distance between sites is 150 miles. Estimated miles in Modoc County are assumed to be 60 miles, and Lake County 90 miles.
- A total of 117 class 3 & 4 vehicles would be traveling to the other site. Class 3 & 4 vehicles are defined as tractor trailer rigs, heavy duty trucks, buses or dump trucks, specific to this activity these consist of:
  - semi-tractor trailers
  - excavators
  - fork lifts
  - front end loader
  - crane
  - 'other construction equipment'

Each of the criteria pollutant emissions can be calculated for each of the counties using this information in the following calculation. The example will be for transport in Modoc County for CO emissions using CO emission factor for Class 3 & 4 vehicles (5 grams/mile) (U.S. Air Force, 2004):

```
CO Emissions = (# trucks)*(miles/yr traveled in county)*(CO emission factor g/mi) = (117)*(60 \text{ mi/yr})*(5 \text{ g/mi}) = 35,100 \text{ g/yr}
```

Convert the emissions into tons/year by dividing by 907,184:

```
CO Emissions = (emission g/yr)*(1 ton/907184 g)
= (35,100 \text{ g/yr})*(1 ton/907184 g)
= 0.038 \text{ tons/yr}
```

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#### National Emissions Inventory

The National Emissions Inventory (NEI) is operated under USEPA's Emission Factor and Inventory Group, which prepares the national database of air emissions information with input from numerous State and local air agencies, from tribes, as well as from industry. The database contains information on stationary and mobile sources that emit criteria air pollutants and hazardous air pollutants (HAPs). The database includes estimates of annual emissions, by source, of air pollutants in each area of the country, on an annual basis. The NEI includes emission estimates for all 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands. Emission estimates for individual point or major sources (facilities), as well as county level estimates for area, mobile and other sources, are available currently for years 1996 and 1999 for criteria pollutants, and HAPs.

Criteria air pollutants are those for which USEPA has set health-based standards. Four of the six criteria pollutants are included in the NEI database:

- Carbon Monoxide (CO)
- Nitrogen Oxides (NO<sub>x</sub>)
- Sulfur Dioxide (SO<sub>2</sub>)
- Particulate Matter (PM<sub>10</sub> and PM<sub>2.5</sub>)

The NEI also includes emissions of Volatile Organic Compounds (VOCs), which are ozone precursors, emitted from motor vehicle fuel distribution and chemical manufacturing, as well as other solvent uses. VOCs react with nitrogen oxides in the atmosphere to form ozone. The NEI database defines three classes of criteria air pollutant sources:

Point sources — stationary sources of emissions, such as an electric power plant, that can be identified by name and location. A "major" source emits a threshold amount (or more) of at least one criteria pollutant, and must be inventoried and reported. Many states also inventory and report stationary sources that emit amounts below the thresholds for each pollutant.

Area sources—small point sources such as a home or office building, or a diffuse stationary source, such as wildfires or agricultural tilling. These sources do not individually produce sufficient emissions to qualify as point sources. Dry cleaners are one example, i.e., a single dry cleaner within an inventory area typically will not qualify as a point source, but collectively the emissions from all of the dry cleaning facilities in the inventory area may be significant and therefore must be included in the inventory.

Mobile sources— any kind of vehicle or equipment with a gasoline or diesel engine; airplane; or ship.

The main sources of criteria pollutant emissions data for the NEI are:

For electric generating units—USEPA's Emission Tracking System / Continuous Emissions Monitoring Data (ETS/CEM) and Department of Energy fuel use data.

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For other large stationary sources—state data and older inventories where state data was not submitted.

For on-road mobile sources—the Federal Highway Administration's (FHWA's) estimate of vehicle miles traveled and emission factors from USEPA's MOBILE Model.

For non-road mobile sources – USEPA's NONROAD Model.

For stationary area sources—state data, USEPA-developed estimates for some sources, and older inventories where state or USEPA data was not submitted.

State and local environmental agencies supply most of the point source data. USEPA's Clean Air Market program supplies emissions data for electric power plants.

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Table D-1. Scientific and Common Names of Plants Found in the Proposed Transmit and Receive Study Areas

Scientific Name	Common Name	Notes
Trees		
Juniperus occidentalis	Western juniper	
Pinus ponderosa	Ponderosa pine	
Shrubs		
Amelanchier alnifolia	Serviceberry	WIS-FACU
Arctostaphylos patula	Greenleaf manzanita	
Artemisia arbuscula	Low sagebrush	
Artemisia cana	Silver sagebrush	WIS-FACW
Artemisia tridentata	Big sagebrush	
Atriplex sp.	Saltbush	
Ceanothus prostratus	Squaw carpet (Mahala mat)	
Ceanothus velutinus	Tobacco bush	
Cercocarpus ledifolius	Curl-leaf mountain mahogany	
Chrysothamnus nauseosus	Grey (Rubber ) rabbitbrush	
Chrysothamnus viscidiflorus	Green (Yellow) rabbitbrush	
Krascheninnikovia (= Eurotia) lanata	Winterfat	
Grayia spinosa	Spiny hopsage	
Purshia tridentata	Bitterbrush (Antelope bush)	
Sarcobatus vericulatus	Greasewood	WIS-FACU
Tetradymia sp.	Horsebrush	
Herbs		
Achnatherum (=Oryzopsis) hymenoides	Indian ricegrass	
Achnatherum (=Stipa) thurberiana	Thurber's needlegrass	
*Agropogon spicatum	Bluebunch wheatgrass	WIS-FACU
*Agropyron desertorum (=A. cristatum)	Crested wheatgrass	
Allium tolmiei		WIS-UPL
Alopecurus saccatus (= A. howellii)	Pacific foxtail	WIS-OBL
Antennaria argentea	Pussy toes	
Astragalus spp.	Locoweed	
Blepharippapus scaber		WIS-UPL
Epilobium (=Boisduvalia) densiflorum	Dense-flowered spike primrose	WIS-FACW
Brodiaea spp.	Brodiaea	
*Bromus tectorum	Cheatgrass	

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Table D-1. Scientific and Common Names of Plants Found in the Proposed Transmit and Receive Study Areas (Cont.)

Scientific Name	Common Name	Notes
Camissonia tanacetifolia		WIS-UPL
Carex douglasii	Douglas' sedge	WIS-FACU
Castelleja (=Orthocarpus) campestris	Owl's clover	WIS-OBL
Chenopodium dessicatum		
Danthonia unispicata	One-spike oatgrass	
Deschampsia danthonioides	Annual hairgrass	WIS-FACW
Descurainia spp.	Tansy-mustard	
Dowingia bacigalupii	Dowingia	WIS-OBL
Downingia bicornuta	Double-horn dowingia	WIS-OBL
Downingia elegans	Common downingia	WIS-OBL
Epilobium minutum	Epilobium	WIS-UPL
Epilobium paniculatum		WIS-UPL
Eremocarpus setigerus	Turkey mullein, Dove weed	
Eriogonum spp.	Buckwheat	
Eryngium mathiasiae	Mathias' button celery	
Festuca idahoensis	Idaho fescue	
Grindelia nana	Idaho gumplant	WIS-FACU
Idahoa scapigera	Flat-pod	
Lagophylla ramosissima		
Lepidium densiflorum	Dense-flowered peppergrass	
Leymus (=Elymus) cinereus	Great Basin wildrye	
Leymus (=Elymus) triticoides	Creeping wildrye	FAC
Limosella aquatica	Northern mudwort	WIS-OBL
Lomatium triternatum		
Lotus micranthus		WIS-UPL
*Lotus corniculatus	Bird's foot trefoil	FAC
Lupinus sp.	Lupine	
Madia sp.	Tarweed	
Montia dichotoma	Dwarf miner's lettuce	WIS-UPL
Muhlenbergia sp.	Muhly	
Myosurus minimus	Tiny mouse-tail	WIS-OBL
Navarretia leucocephala ssp. minima (=N. minima)	Least navarretia	WIS-FACW

Table D-1. Scientific and Common Names of Plants Found in the Proposed Transmit and Receive Study Areas (Cont.)

Scientific Name	Common Name	Notes
Navarretia intertexta ssp. propinqua (=N. propinqua)	Great Basin navarretia	WIS-FAC
Navarretia sp.	Navarretia	
Oenothera deltoides	Basket evening-primrose	
Plagiobothrys bracteatus	Bracted popcorn-flower	WIS-OBL
Plagiobothrys leptocladus	Fine-branched popcorn-flower	WIS-OBL
Plagiobothrys sp.	Popcorn-flower	
Plagiobothrys stipitatus var. micranthus	Slender popcorn-flower	WIS-OBL
Poa secunda (=P. nevandensis)	Nevada bluegrass	WIS-FAC
Poa secunda (=P. sandbergii)	Sandberg bluegrass	WIS-UPL
Pogogyne floribunda	Many flowered pogogyne,	WIS-FACW, CNPS List 1B
Polyctenium fremontii		WIS-UPL
*Ploygonum arenastrum (=P. aviculare)	Prostrate knotweed	WIS-FAC
Polygonum polygaloides ssp. confertiflorum	Polygale knotweed	WIS-FACW
Psilocarphus brevissimus	Dwarf wooly heads	WIS-OBL
Psilocarphus sp.	Woolly heads	
Ranunculus aquatilis	White water buttercup	WIS-OBL
*Senecio vulgaris	Common groundsel	
*Spergularia rubra	Purple sandspurry	WIS-FAC
Elymus elymoides (=Sitanion histrix)	Bottlebrush squirreltail	WIS-FACU
Swertia (=Frasera) albicaulis		
*Taraxacum officinale	Common dandelion	WIS-FACU
Trifolium macrocephalum	Large-head clover	WIS-FACU
Veronica peregrina ssp. xalepensis	Purslane speedwell	WIS-OBL

Sources: EIS, 1983; Metcalf and Eddy, 1996; Reed, 1988; CNDDB, 2004; Hickman, 1983.

Notes: WIS = Wetland Indicator Status of species (from Reed 1988): OBL - Obligate, almost always found in wetlands; FACW - Facultative Wetland, found in wetlands most of the time; FAC - Facultative, equally likely to be found in wetlands or upland habitats; FACU - Facultative Upland, found in upland most of the time; UPL - almost always found in uplands. Most of the wetland plants were reported during vernal pool monitoring at the Tulelake receiver site. Not all plant species are assigned a WIS.

Appendix D D-3

<sup>\*</sup> Indicates a non-native species.

Table D-2. Scientific and Common Names of Animals Found in the Proposed Transmit and Receive Study Areas

Scientific Name	Common Name
Mammals	
Sorex sp.	Shrew
Myotis sp.	Bat
Sylvilagus nuttallii	Nuttall's cottontail
Lepus californicus	Black-tailed jackrabbit
Tamias minimus	Least chipmunk
Spermophilus lateralis	Golden-mantled ground squirrel
Tamiasciurus douglasii	Douglas' squirrel
Thomomys talpoides	Northern pocket gopher
Dipodomys ordii	Ord's kangaroo rat
Peromyscus maniculatus	Deer mouse
Neotoma cinerea	Bushy-tailed woodrat
Erethizon dorsatum	Porcupine
Canis latrans	Coyote
Ursus americanus	Black bear
Mustela frenata	Long-tailed weasel
Taxidea taxus	Badger
Felis concolor	Mountain lion
Lynx rufus	Bobcat
Odocoileus hemionus	Mule deer
Antilocapra americana	Pronghorn antelope
Birds	
Branta canadensis	Canada goose
Anas platyrhynchos	Mallard
Accipiter gentilis	Goshawk
Buteo jamaicensis	Red-tailed hawk
Buteo lagopus	Rough-legged hawk
Aquila chrisaetos	Golden eagle
Haliaeetus leucocephalus	Bald eagle
Circus cyaneus	Marsh hawk
Falco mexicanus	Prairie falcon
Falco sparverius	American kestrel
Centrocercus urophasianus	Sage grouse

D-4 Appendix D

Table D-2. Scientific and Common Names of Animals Found in the Proposed Transmit and Receive Study Areas (cont.)

Scientific Name	Common Name
Birds (cont.)	
Zenaida macroura	Mourning dove
Colaptes auratus	Northern flicker
Dryocopos pileatus	Pileated woodpecker
Contopus sordidulus	Western wood peewee
Eremophila alpestris	Horned lark
Cyanocitta stelleri	Steller's jay
Gymnorhinus cyanocephalus	Pinyon Jay
Aphelocoma coerulescens	Scrub jay
Pica pica	Black-billed magpie
Parus gambeli	Mountain chickadee
Psaltriparus minimus	Bushtit
Oreoscoptes montanus	Sage thrasher
Turdus migratorius	American robin
Sialia mexicana	Western bluebird
Bombycilla cedrorum	Cedar waxwing
Lanius ludovicianus	Loggerhead shrike
Lanius excubitor	Northern shrike
Sturnella neglecta	Western meadowlark
Leucosticte tephrocotis	Rosy finch
Chondestes grammacus	Lark sparrow
Amphispiza belli	Sage sparrow
Spizella breweri	Brewer's sparrow
Reptiles	·
Sceloporus graciosus	Sagebrush lizard
Pituophis melanoleucus	Gopher snake
Crotalus viridis	Western rattlesnake

Appendix D D-5

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D-6 Appendix D

Final EA Equipment Removal at OTH-B West Coast Radar Site

Environmental Baseline Survey for Over-The-Horizon Backscatter (OTH-B) Site at Christmas Valley, Oregon

**Preliminary Final** 



United States Air Force Air Combat Command

#### **ACRONYMS AND ABBREVIATIONS**

ACC Air Combat Command

ACM Asbestos-Containing Materials

AFI Air Force Instruction
Air Force United States Air Force
AST aboveground storage tank

ASTM American Society for Testing and Materials

BLM Bureau of Land Management

CAA Clean Air Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CERFA Community Environmental Response Facilitation Act

CWA Clean Water Act

DoD Department of Defense
DOI Department of Interior
EA Environmental Assessment
EBS Environmental Baseline Survey
EDR Environmental Data Resources, Inc.

LBP lead-based paint

LUST leaking underground storage tank

MSDS Material Safety Data Sheets

NORAD North American Aerospace Defense Command

OAR Oregon Administrative Rules
ORS Oregon Revised Statutes

OTH-B Over-The-Horizon Backscatter

PCB polychlorinated biphenyl

pCi/L picocuries per liter

POL petroleum, petroleum products, oil, and lubricants

RAMP Radon Assessment and Mitigation Program RCRA Resource Conservation and Recovery Act

SDWA Safe Drinking Water Act

SVOCs semi-volatile organic compounds
TPH total petroleum hydrocarbons
TSCA Toxic Substances Control Act

USEPA United States Environmental Protection Agency

USGS United States Geological Survey

UST underground storage tank
VOC volatile organic compound
VSI visual site investigation

### **Preliminary Final**

# ENVIRONMENTAL BASELINE SURVEY FOR OVER-THE-HORIZON BACKSCATTER (OTH-B) SITE AT CHRISTMAS VALLEY, OREGON

U.S. Air Force Air Combat Command

April 2006

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#### EXECUTIVE SUMMARY

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- 2 The purpose of this Environmental Baseline Survey (EBS) is to document the environmental
- 3 conditions at the Over-The-Horizon Backscatter (OTH-B) site in Christmas Valley, Oregon. The
- 4 Air Force accepted control of the system in December 1990. In 1991 just months after being put
- 5 into place, the West Coast site reduced its activities to caretaker status and it has remained in
- 6 the status for the past 15 years. While in caretaker status the site has been occupied by only two
- 7 persons. This EBS was conducted in compliance with United States Air Force (Air Force) policy
- 8 requirements of Environmental Baseline Surveys in Real Estate Transactions (Air Force Instruction
- 9 [AFI] 32-7066) and incorporates the commercial guidelines of Standard Practice for Environmental
- Site Assessments: Phase I Environmental Site Assessment Process. The EBS team used the following
- approach to survey the property: review available documents from Federal, state, and local
- sources; interview persons knowledgeable about the property, including Federal, state, and
- local authorities; and visually inspect the property and surrounding areas.
- In accordance with AFI 32-7066, parcels involved in acquisitions should be classified into one of
- seven categories based on the presence of hazardous substances or petroleum products or their
- derivatives. Based on Air Force guidance, all property with category codes 1 through 4 may be
- acquired without reservations. The findings for the various environmental factors considered in
- this report are described below.

#### 19 Environmental Issues

- *Hazardous Materials and Wastes and Petroleum Products and Wastes*. During the site inspection few hazardous material and petroleum products were in use or stored within the subject property. One waste collection point was in use for the storage of non-hazardous waste products.
- *Storage Tanks*. Based on the available documentation, three 6,000-gallon USTs were previously located on the site. These tanks were removed in December 2004 and soil sampling did not detect any contamination within the subject property.
- *Pesticides*. Herbicide applications are conducted annually to control weeds within the ground screen area. There was no evidence of any misapplication of pesticides observed at the time of the site inspections.
- *Medical or biohazardous waste*. No medical or biohazardous waste sources were observed during the site inspections or as part of the records review.
- *Ordnance.* No ordnance was observed during the site inspections or as part of the records review.
- *Radioactive Waste.* No radioactive materials or wastes were observed at the time of the site inspection of the subject property.
- *Solid Waste.* Solid wastes are collected from buildings within the subject property by site personnel and taken to the local landfill. No active landfills are found within the subject property.
- Wastewater Collection, Treatment and Discharge. Wastewaters generated within the subject property are directed to a septic system. Wastewaters generated from cleaning

operations, floor drains, an oil interceptor, and a neutralizing pit in the battery room were directed to the septic system.

#### **Disclosure Factors**

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- *Drinking Water Quality*. Drinking water is available from onsite wells; however, personnel onsite prefer to drink bottled water. Sampling of well water has not been conducted while this site has been in caretaker status.
- Asbestos. While there has not been a facility-wide survey for asbestos containing materials, based on the construction date no asbestos containing materials are anticipated to be present.
- *Polychlorinated Biphenyls (PCBs)*. Based on the construction date and onsite staff knowledge, no PCBs are anticipated to be present on the site.
- *Radon.* According to the USEPA National Radon Database the subject property is located in a zone with a slight potential for the presence of radon.
- Lead-based Paint. While there has not been a facility-wide survey for lead-based paint, given the age of construction of the facilities the presence of lead-based paint is not anticipated.
- Based on the findings for this EBS, facilities inspected in October 2004, with the exception of the septic systems which are classified Category 7, can be classified Category 1. The following recommendations are made to develop the information necessary to clarify that the septic systems can be classified as Category 1 through 4.
- 21 Septic Systems. While observed waste disposal practices do not suggest that specific
- 22 contaminants have entered the wastewater system, with the presence of paints, solvents, oils
- 23 and other hazardous materials, there is the potential that these materials may have entered into
- the septic system. There is the potential for contamination to be present in the soils and
- 25 groundwater surrounding the septic system. The soils and groundwater (if present) need to be
- sampled for total petroleum hydrocarbons (TPH), metals, volatile organic compounds (VOCs),
- 27 and semi-volatile organic compounds (SVOCs) to confirm the absence of contaminants.

# 1.0 PURPOSE OF THE ENVIRONMENTAL BASELINE SURVEY

- 3 The purpose of this Environmental Baseline Survey (EBS) is to document the environmental
- 4 conditions at the Over-The-Horizon Backscatter (OTH-B) site in Christmas Valley, Oregon. The
- 5 North American Aerospace Defense Command (NORAD) has identified that the government
- 6 has no operational requirement for the existing FPS-118 OTH-B radar system (Air Force 2002).
- 7 This radar system detects and tracks from a greater distance than conventional radar. The U.S.
- 8 Air Force (Air Force) Air Combat Command (ACC) controls, operates and maintains numerous
- 9 bases, installations, and ranges throughout the United States.
- The subject property would be returned to the United States (US) Department of Interior (DOI)
- Bureau of Land Management (BLM). This document was prepared in accordance with Air
- Force Instruction (AFI) 32–7066 Environmental Baseline Surveys in Real Estate Transactions.
- The EBS documents whether there is any evidence to suggest possible contamination at the subject
- property, either in the soil or groundwater, resulting from the past and current use or storage of
- 15 hazardous material or from the storage of hazardous waste.
- An EBS collects all available information on existing environmental conditions into a single
- document for use by the Air Force in making decisions concerning real property transactions.
- Although primarily a management tool, an EBS also assists the Air Force in meeting its obligations
- under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as
- amended by the Community Environmental Response Facilitation Act (CERFA). An EBS is
- required by Department of Defense (DoD) policy before any property can be sold, leased,
- 22 transferred, or acquired.

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- 23 An EBS identifies recognized environmental conditions, defined as the presence or likely presence
- of any hazardous substances or petroleum products under conditions that indicate an existing
- 25 release, a past release, or the material threat of a release into structures on the property or into the
- 26 ground, groundwater, or surface water of the property. It does not include *de minimis* conditions
- that generally do not represent a material risk of harm to public health or the environment and that
- 28 generally would not be the subject of a regulatory enforcement action. Appendix H of this
- 29 document contains certifications that attest to the environmental conditions at the subject property.

#### 1.1 BOUNDARIES OF THE PROPERTY AND SURVEY AREA

- The transmitter site is located near Christmas Valley, Oregon. The facility occupies land which
- is managed by the Air Force and was withdrawn from public use by the BLM with the
- implementation of Public Land Order 6745 published in the Federal Register on 9 September
- 1989. The order withdrew 2,622 acres of public land from surface entry and mining for 20 years
- for use by the Air Force as a radar transmitter site. The land has been and remains open to
- 36 mineral leasing.

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- 37 The legal description of the property was defined in the Public Land Order 6745 published in
- the Federal Register on 9 September 1989. The site is comprised of two parcels of land situated

- in Sections 19, 30, 31, and 32 of Township 26 South, Range 20 East and Sections 6 and 7 of
- 2 Township 27 South, Range 20 East, all in the Willamette Meridian, Lake County Oregon. Parcel
- 1 consists of approximately 2,622 acres and includes the transmitter site. Parcel 2 is about 34
- 4 acres and consists of a 100-foot wide strip of land that was established for the access road. The
- 5 parcel includes 34 acres. A metes and bounds description was provided for Parcel 1 in the
- 6 federal register notice.

#### 2.0 SURVEY METHODOLOGY

#### 2.1 APPROACH AND RATIONALE

- 3 This EBS documents whether there is any evidence to suggest possible contamination at the
- subject property, either in the soil or in groundwater, resulting from past and current usage or
- 5 from the storage and release of hazardous material or the storage and disposal of hazardous
- 6 waste.

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- 7 This EBS was prepared in accordance with the provisions of Air Force Instruction (AFI) 32-7066
- 8 "Environmental Baseline Surveys in Real Estate Transactions" (Air Force 1994), and with the
- 9 American Society for Testing and Materials (ASTM) Standard E-1527 entitled "Environmental
- Site Assessment for Commercial Real Estate" (ASTM 2000). It follows a methodical three-step
- process in which available information was analyzed and conclusions were drawn about the
- condition of the property.
  - Previously developed data for the property were reviewed, including environmental documents, land use maps, and aerial photographs, to identify current and historical land uses and potential sources of contamination. Available state and federal environmental records were also reviewed to identify potential areas of concern.
  - A physical inspection of the property was conducted to identify any evidence of staining, distressed vegetation, or other indications of contamination.
  - Interviews were conducted with personnel with knowledge of the history and current use of the property.
- 21 The result of the data gathering process was a collection of component information that, when
- 22 assembled, provides a picture of the existing condition. This enables the researchers to sort the
- 23 property into defined environmental resource categories and identify any data gaps.
- 24 The EBS team used the following approach to survey the property: review available documents
- 25 from federal, state, and local sources; interview persons knowledgeable about the properties,
- including federal, state, and local authorities; and visually inspect the properties and
- 27 surrounding areas.

#### 2.1.1 Description of Data Reviewed

- 29 The EBS team examined available documents from the HQ ACC staff that contained
- information on the environmental condition of the subject property. The documents used to
- prepare this document are listed in Appendix A.
- 32 Documents from state, and local offices also were examined to provide background information
- on the property and surrounding areas. Historical aerial photographs and topographic maps
- from the United States Geological Survey (USGS) are also listed in Appendix A. In addition,
- relevant state and Federal environmental databases (e.g., leaking underground storage tank
- <sup>36</sup> [LUST] lists, emergency spill response reports, and hazardous waste generation files) were
- searched to determine which sites in the surrounding area have the potential to affect the

- surveyed property. The Federal environmental databases and state environmental databases
- 2 searched are listed in Appendix G-1.

#### 2.1.2 Property Inspection

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- During the site visit conducted on October 27, 2004, observations were made of the surface
- 5 conditions (i.e., ground surface, vegetation, and structures) and along the outer periphery of the
- sector four facilities and on the abutting and nearby properties. Facilities at sector 4 were the
- only facilities that were used full time by onsite caretaker staff and were the only sector with a
- 8 vehicle maintenance building. Inspection of the sector 5 and 6 facilities was not possible with
- 9 the available time onsite. The primary onsite caretakers, Robin and Kenyon Morehouse were
- not available during the week scheduled for the site visit. One person from the OTHB Tulelake
- site in California was onsite to unlock the facilities. Additional Air Force and contract personnel
- were available the day of the inspection while they conducted other closure activities.

#### 2.1.3 Personnel Interviews

- 14 Table 2-1 lists individuals interviewed during the site visit or in follow-up communications
- regarding various issues related to the subject property, including past and current uses of the
- 16 properties and surrounding properties.

Table 2-1. List of Interviews Proposed Land Disposal

Name	Responsibility	Organization
Rodger Haudenshield	Onsite Caretaker	Native Energy and Technology, Inc.
Robin Morehouse	Onsite Caretaker	Native Energy and Technology, Inc.
Kenyon Morehouse	Onsite Caretaker	Native Energy and Technology, Inc.
Deane Smith	QAE	HQ ACC/PMS
Steve Treadwell	Senior Engineering Technician	Native Energy and Technology, Inc.

#### 3.0 FINDINGS FOR SUBJECT PROPERTY

#### 3.1 HISTORY AND CURRENT USE

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- 3 The OTH-B radar system was developed in the early 1970s to provide all-altitude, long-range
- 4 surveillance of aerial approaches to the United States. Two OTH-B radar systems were
- 5 constructed, one system each on the West and East Coasts. Each system included transmitter,
- 6 receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing
- 7 radar waves and return signals, enabling the system to detect and track targets that would
- 8 otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles.
- 9 Processed data was communicated from the receiver location to the operations site for
- correlation with known aircraft positions. The OTH-B radar system was built by General
- Electric beginning in 1986. The Air Force accepted control of the system in December 1990. In
- 1991 just months after being put into place, the West Coast site reduced its activities to caretaker
- status and it has remained in the status for the past 15 years. While in caretaker status the site
- has been occupied by only two persons. The OTH-B West Coast Radar system currently includes
- sites located in California and Oregon as shown in Figure E-2.
- The transmitter site located near Christmas Valley, Oregon, occupies land that is managed by the
- Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management
- 18 (BLM). The site is locally referred to as Buffalo Flats. The facility's three sectors of antennae,
- oriented 60 degrees from each other, require approximately 1,200 acres. The three antenna
- 20 systems consist of a back screen made of 8-inch-square corrosion-resistant wire mesh. The back
- screen is supported by 49 steel towers, 65 feet high, spaced along a 5,000 foot axis supported by 49
- 22 concrete foot pads. Located directly behind the back screen are a series of copper tube wave-
- 23 guides that run the length of the back screen. The copper wave-guide tubes extend to the antenna
- towers and include the balun domes. The antenna towers vary in height from approximately 45
- to 135 feet and are approximately 3,640 feet long. In front of each back screen and antenna array
- is a ground screen of galvanized metal mesh that extends approximately 750 feet in front of each
- back screen and covers approximately 255 acres (85 acres per array). An eight-foot-high wooden
- security fence is located approximately 100 feet in front of the ground screen. It encloses the
- entire site and some facilities (19,280 feet per antenna system or 58,284 feet total).
- In addition to the radar structure, there is a transmitter building, a vehicle maintenance shop and
- an electric switching station associated with the sector 4 antenna (the northernmost sector). The
- other two sectors (5 and 6) each have a transmitter building and an electric switching station. The
- transmitter building has approximately 16, 600 square feet of space that supported the
- transmitter, administrative and logistics requirements. The vehicle maintenance shop consisted of
- a 900 square foot building with lighting and electric heat.
- 36 Supporting the transmitter building is an onsite water supply and storage system, septic system,
- and back-up power generation equipment, including, underground storage tanks (removed in
- 38 December 2004).

## 3.2 ENVIRONMENTAL SETTING

## 3.2.1 Topographic Features

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- The transmitter site in Christmas Valley, Oregon is located at an elevation of 4,300 feet above
- 4 mean sea level in the relatively flat, dry bed of a large late Pleistocene lake, within the Fort Rock
- 5 Basin. It is vegetated by sagebrush, rabbitbrush, saltbrush, and native grasses. There are no
- tress, outcroppings, surface water or other terrain features. Noted for its north-trending fault
- block mountains that enclose large basins, the Basin and Range Province in Oregon stretches
- from the Cascade Mountain Range in the west to the Owyhee Uplands in the east. The
- 9 development of rock units in the basin covers the Pliocene, Pleistocene, and Recent epochs. The
- oldest exposed rock unit is the Picture Rock Basalt, a thick sequence of basaltic lava flows and
- interbedded pyroclastic materials (i.e., volcanic materials that were ejected in a volcanic
- eruption). Much of the basin floor is underlain at shallow depths by the Fort Rock Formation,
- which is comprised of four rock types. Listed in descending order of abundance, these rock
- types are pyroclastics, diatomite (i.e., volcanic clay), basaltic agglomerate, and basaltic lava. The
- 15 pyroclastic rocks typify the Fort Rock Formation, which occurs as bedded and massive non-
- bedded layers. Diatomite and ashy diatomite occur among the southern edges of the basin in
- the Seven Mile Ridge/Table Rock Butte areas and are exposed in dry washes. The basalt occurs
- as flows or agglomerates in layers about 5 to 15 feet thick. The flows of this unit generally
- display columnar jointing and are vesicular at the top. A summary of geologic information
- 20 provided in the EDR records search is presented in Table 3-1.

Table 3-1. Summary of Geological Information

ROCK STRATIGRAPHIC UNIT				
Era	Cenozoic			
System	Quaternary			
Series	Quaternary			
Code	Q			
Geol	OGIC AGE IDENTIFICATION			
Category	Stratified Sequence			
DOMINANT SOIL COMPOS	SITION IN GENERAL AREA OF TARGET PROPERTY			
Soil Component Name	Flagstaff			
Soil Surface Texture	xture silt loam			
Hydrologic Group	Class D – Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.			
Soil Drainage Class	Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile. Depth to water table is less than 1 to 3 feet.			
Hydric Status	Soil meets the requirements for a hydric soil.			
Corrosion Potential – Uncoated Steel	High			
Depth to Bedrock Minimum	> 60 inches			
Depth to Bedrock Maximum	> 60 inches			

- No faults are recorded or visible within the subject project boundaries; however, many
- 2 northwest trending faults are present in the surrounding hills. Several miles to the north and
- east are large areas of dune sand composed of ash pumice and rock forming minerals, resulting
- from alluvium and surface wind-blown deposits. Small sand and gravel pits are located in the
- 5 general area. There are no known mineral resources on the transmitter site.
- 6 The Christmas Valley is dominated by the Flagstaff soil series, which consist of poorly drained
- silt loam over silty clay loam, sodic soils, and underlying hardpans. Formed in silty lake
- sediments, these soils occur on 0 to 1 percent slopes in the project area. Typically, the surface
- 9 layer consists of a silt loam, approximately 3 inches thick, with underlying subsoil of silty clay
- loam, approximately 11 inches thick. A weakly to strongly cemented hardpan occurs at a depth
- of about 14 inches. The swell-shrink potential is low to moderate and permeability is low,
- resulting in periodic shallow spring flooding. The flat terrain results in very slow runoff and a
- low water erosion hazard. No streams (perennial or ephemeral) traverse the project site, nor are
- surface drainage patterns apparent within several miles.
- A small portion of the project area is covered by the Bonnick soil series, consisting of
- excessively drained soils formed in gravelly, sandy sediments weathered from volcanic rocks.
- 17 Typically, the surface layer consists of loamy sand, about 7 inches thick, whereas the subsoil
- consists of gravelly loamy sand, approximately 13 inches thick. Soils beneath that depth consist
- of gravelly loamy sand and gravelly coarse sand, to depths over 40 inches. A hardpan layer is
- present below a depth of 40 inches. Table 3-2 provides additional soils information taken from
- 21 the records search report (EDR 2005).

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Table 3-2. Summary of Soils Information

	Boun	IDARY	Soil	CLASSIFIC	CATION	Permeability	Soil
Layer	Upper	Lower	Texture Class	AAASHTO Group	Unified Soil	Rate (in/hr)	Reaction (pH)
1	0 inches	3 inches	silt loam	Silt-Clay materials (more than 35 pct. passing No. 200), Silty Soils	Fine-grained soils, Silts and Clays (liquid limit less than 50 %), silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90
2	3 inches	14 inches	Silty clay loam	Silt-clay materials (more than 35 pct. passing No. 200), Clayey soils	Fine-grained soils, Silts and Clays (liquid limit 50% or more). Elastic silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 8.50
3	14 inches	60 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

23 Wind erodibility, or the potential for soil blowing, is affected by the soil texture, organic matter,

- calcium carbonate content, mineralogy, and moisture content. The erodibility of these soils by
- wind is moderate. The type of ground cover plays an important role in controlling the
- incidence of fugitive dust. Winds generally are of constant, mild velocities originating from the
- south-southwest. While some gusting does occur during the spring and summer months, most
- of the region remains relatively dust-free due to the thick growth of low sagebrush.

Preliminary Final EBS for OTH-B Site at Christmas Valley, Oregon

## 3.2.2 Utilities Available to the Site

- 2 The OTH-B site in Christmas Valley, Oregon is provided with electrical power by Midstate Electric
- 3 Cooperative of La Pine, Oregon. The power is delivered through a 480 volt underground primary
- distribution to an onsite substation that is maintained by the supplier. Photograph F-12 shows the
- <sup>5</sup> electric switching station that houses the controls. Building access is controlled by Midstate Electric
- 6 Cooperative and an examination of the interior of the building was conducted through the window
- in the side of the building. There is no natural gas supply, sewer service or potable water service to
- 8 the site from regional utility systems.

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## 3.3 HAZARDOUS SUBSTANCES

- During the EBS a visual inspection of the subject property was conducted to find evidence of the
- storage, disposal, or release of hazardous substances. The areas of concern within the subject
- property are discussed in the following sections.

#### 13 3.3.1 Results of Database Search

- A search of available federal and state databases (Appendix G-1, Pages 13-36) was conducted to
- identify potential environmental issues associated with the site or surrounding properties
- 16 (extending up to one mile from the edge of the subject property). This search was completed in
- accordance with the ASTM Standard E-1527 entitled "Environmental Site Assessment for Commercial
- 18 Real Estate," dated 2000. A copy of the search report, which was produced by Environmental Data
- 19 Resources (EDR), is included as Appendix G-1. The database search found the subject property
- only listed in DOD database (federal lands, administrated by Department of Defense equal to or
- 21 greater then 640 acres).

#### 3.3.2 Hazardous Materials and Petroleum Products

- 23 The transmitter site utilizes hazardous materials for minor maintenance and cleaning activities. In
- the past Halon was used as part of the fire suppression system and extensive air conditioning
- systems contained either propylene or ethylene glycol. The Halon bottles were removed in 1997
- and recently the majority of the propylene glycol (1420 gallons per sector) was removed from the
- 27 facility. Hazardous materials were stored in flammable storage cabinets at the time of the site
- inspection in the shop area of the transmitter building and on spill pallets in the vehicle
- maintenance building (see Appendix F, Photographs F-1 through F-6). Fuel for motor vehicles is
- also stored onsite in these cabinets. Material Safety Data Sheets (MSDS) were available for the
- products that were onsite, however a hazardous material inventory was not available. The roads on
- the site were reportedly treated with magnesium chloride which is approved by the BLM for dust
- suppression in the 1991 EA (Air Force 1991).

#### 3.3.3 Hazardous and Petroleum Waste

- 35 Oregon has adopted the federal RCRA regulation and these regulations are codified in Oregon
- 36 Administrative Rules (OAR) Chapter 340, Division 100-120. Oregon also has exemptions for
- facilities that generate less than 100 kilograms of hazardous waste per month or stores less than
- 1,000 kilograms of waste. The subject property does not appear to have generated hazardous
- waste; records of waste shipments were not available onsite at the time of the site inspection.

- Spent fluorescent bulbs, ballast and batteries were stored in the Battery Room-Room T103 at the
- time of the site inspection. These wastes can be managed as non-hazardous and disposed of in
- accordance with Oregon solid waste regulations. Vehicle maintenance on the all terrain vehicle
- 4 and a tractor is performed offsite and there have been no reported hazardous materials spills or
- 5 release at the subject property.

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#### 3.4 STORAGE TANKS

## **7 3.4.1 Aboveground Storage Tanks**

- 8 There is three 75,000-gallon aboveground steel storage tanks that store water associated with the fire
- 9 protection system. Each tank is located adjacent to the transmitter buildings. In the 1991
- Environmental Assessment (EA) for the placement of the system into limited operational status it
- was noted that three 500-gallon ASTs on tank stands were onsite and reportedly dated from the
- original construction. None of these tanks were bermed or had containment under the tanks. Two
- tanks contained unleaded gasoline and the other contained diesel. All the tanks were locked and
- minor soil staining was observed. A generator was located next to the tanks and had an apparent
- 15 hydraulic leak with minor soil staining. An open 5 gallon container that may have contained waste
- oil was under this generator (Air Force 1991). These ASTs were not onsite at the time of the 2004
- site inspection and there was no evidence of the past soil staining observed 13 years ago.

## 3.4.2 Underground Storage Tanks

- The State of Oregon has adopted and referenced the federal underground storage tanks (USTs)
- regulation into the Oregon Administrative Rules (OAR) Chapter 340 Division 150. These
- 21 regulations are codified in the Oregon Revised Statutes (ORS) 466.705 through 466.835 and ORS
- 466.895 through 466.995. These regulations are equivalent to federal regulations.
- Each of the three transmitter buildings (see Appendix F, Photograph F-10) had a 6,000-gallon
- double-walled fiberglass UST at the time of the site inspection. The registration of these tanks and
- 25 records for these tanks was not maintained at this facility. All of the USTs had spill and overfill
- 26 containment and leak detection systems. All three antenna sites had the leak detection systems
- operational during the 1991 site visit. The fuel tanks did not have electronic inventory reconciliation
- systems. No soil staining or evidence of a release was noted in the areas surrounding the drop
- tubes. The fuel is pumped via double-walled fiberglass pipes to a 100-gallon day tank that supplies
- the 175 kilowatt backup generator. The pumps and day tanks have secondary containment.
- The 1991 EA reported that the sector 6 site had a slight pump gasket leak to the floor drain. The
- drain reportedly flowed to a contained sump. The room containing the generator and pump was
- on a concrete floor. This location was not observed during the 2004 site inspection.
- 34 According to an Oregon Department of Environmental Quality, Underground Storage Tank
- 35 Decommissioning Change in Service Report the three, 6,000-gallons USTs were removed during the
- timeframe 27-29 December 2004. At each location two soil samples were taken. Each sample was
- tested for the presence of diesel and C28 (heavy hydrocarbons and motor oils) and all samples
- tested non-detected (Appendix G-3).

## 1 3.4.3 Pipelines, Hydrant Fueling, and Transfer Systems

- 2 Underground piping extended from the each 6,000 UST to the day tank inside the transmitter
- building. According to the tank removal contractor, underground piping was drained of
- 4 product and removed as far as could be safely done and capped off (Ed Staub and Sons
- 5 Petroleum Inc. 2005).

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#### 3.5 OIL/WATER SEPARATORS

- 7 An oil interceptor was installed in the floor of the Fire Pump Room- T107 when the facility was
- 8 constructed in 1988-1990. Floor drains in the Generator Room T106 were connector to this
- 9 interceptor which then flowed to the septic system. At the time of the site inspection there was no
- visible residue in the interceptor.

## 3.6 PESTICIDES

- Facility maintenance personnel store and use herbicides to control the growth of vegetation
- within the ground screen area. At the time of a previous site inspection in 1991, the herbicide
- Roundup was used to treat the ground screen areas on a yearly basis to prevent the weeds from
- damaging the screen (Air Force 1991). No records of past herbicide use were available at the
- time of site inspection and a pesticide management plan was not available for review.
- Subsequent to the site visit a pesticide management plan was developed and is available at the
- site (Native Energy and Technology, Inc 2003). The plan identified the herbicides used and the
- total quantity onsite as: Crossbow (15 gallons) and Krovar (720 pounds). There was no
- 20 inventory of herbicides being stored at the time of the site inspection, although MSDSs were
- 21 available for the products on-hand. Herbicides were stored in the operations and maintenance
- building. Photograph F-6 shows the storage conditions at the time of the site inspection.
- 23 Containers were in good condition and there was no visible evidence of any release of herbicide
- on the surface of the concrete floor at the time of the inspection.

## 3.7 MEDICAL BIOHAZARDOUS WASTES

- 26 After conducting the site inspection, interviewing facility personnel, and reviewing the documents
- 27 referenced in Appendix A, there is no evidence of the use or storage of any medical or biohazardous
- materials or waste on the property being considered for disposal.

#### 3.8 ORDNANCE

- 30 Based on the records search, personnel interviews and the site inspection, there is no evidence that
- ordnance is or have ever been employed or stored at the site.

## 32 3.9 RADIOACTIVE WASTES

- Based on the records search, personnel interviews, and the site inspection, there is no evidence that
- radioactive wastes were generated or stored at the site.

## 3.10 SOLID WASTE

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- 2 Solid waste is removed and transported by the onsite operations and maintenance contractor to the
- 3 Christmas Valley landfill. No materials were observed landfilled onsite and all of the construction
- 4 debris was reportedly removed after site construction.

#### 3.11 GROUND WATER

- 6 Precipitation for this site is approximately 10 inches per year. The Summer Lakes watershed is a
- 7 closed sub-basin and covers, along with the Goose watershed, the majority of Lake County. Many
- 8 intermittent streams flow a short distance and empty into either playa lakes or man made basins.
- 9 The site area is devoid of permanent surface drainage apart from that constructed to serve the
- facilities, antenna fields and the service roads. Existing wells in the area have exhibited water yields
- ranging from a few gal/min to 1,000-gal/min. The shallow water table is approximately 4 to 7 feet
- below the surface, but has been steadily declining over the past several years (Air Force, 1983).
- Water quality in the area varies. Extremely hard, saline, chlorides, sulfates and other undesirable
- compounds are common impurities. No wells were found in a search of the USGS, FRDS Public
- Water Supply system and the State well databases within 1 mile of the site according to the EDR
- records search (EDR 2005).

# 3.12 WASTEWATER TREATMENT, COLLECTION, AND DISCHARGE

- 19 Associated with each transmitter building is a wastewater collection system that collects wastewater
- 20 from sanitary facilities and from the floor drain in the battery room. The floor drain in the battery
- 21 room flows to a limestone-filled acid neutralizing basin that empties by gravity into the collection
- system. Wastewater is directed to a 1,500-gallon septic tank which discharges to an 80-foot by 70-
- foot leach field outside of the building compound area. The septic system has functioned without
- 24 any problems according to onsite personnel. According to onsite personnel no permit has been
- obtained for the operation of the system and no maintenance contract has been needed given its
- limited use (personal communication Morehouse 2005).

## 3.13 DRINKING WATER QUALITY

- Water at the site is supplied by a 200-foot deep well located at each transmitter building. The well
- supplies both a potable and non-potable system. Non-potable water supplies deionizers
- 30 (transmitter fluid cooling system make-up), fire pump piping, emergency eyewash station, water
- closet urinal, hose bibs and trap primer valves. The non-potable water system utilizes well water
- directly after pre-filtering. The potable water supplies the mop sink, lavatory, drinking fountain,
- and air conditioning units. The potable water system includes a prefilter, water softener,
- 34 hypochlorinator, and holding tank (for complete chlorine mixing) and electric hot water heater. The
- water quality onsite required the installation of reverse osmosis water treatment to remove the
- impurities. At the time of the site inspection bottled drinking water was used. There is also a single
- 650-foot deep well that was originally used for the construction of the three sectors and now is used
- to supply water for use by wildlife (Appendix G-2, page 14, item h). Three 75,000 gallon storage
- water tanks are onsite for fire suppression.

## 3.14 ASBESTOS

- 2 Asbestos is a naturally occurring mineral which is a very effective heat and sound insulator. As a
- consequence, it has been used in many buildings as a fire and noise retardant. However, it has been
- 4 linked to several diseases, including lung cancer; and since 1987 it has not been used in construction
- 5 materials (USEPA 1988). Asbestos-Containing Materials (ACM) include insulation, floor tiles,
- 6 mastic, pipe-wrap, roofing, and other materials, such as transite siding.
- 7 Based on the date of construction for these facilities, the records search, personnel interviews,
- 8 and the site inspection, there is no evidence that the structures (potentially containing asbestos)
- 9 are or have ever been located at the site. No testing or sampling for asbestos was performed as
- part of this EBS.

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## 3.15 POLYCHLORINATED BIPHENYLS

- Polychlorinated biphenyls (PCBs) are organic chemicals that have been determined to be a
- public health concern. In the United States PCBs have not been manufactured since 1979;
- 14 however, they remain prevalent in many types of electronic equipment and hydraulic fluids.
- Examples of equipment that may contain PCBs include transformers, capacitors, and light
- ballasts. In addition, fluids associated with heat transfer systems, hydraulics and waste oils
- may also contain PCBs (USEPA 1998). Given the start of construction in 1987, equipment with
- 18 PCBs should have not been used in the transmitter facilities.
- Although no testing or sampling for PCBs was performed as part of this EBS, during records
- 20 review, interviews, and visual site inspections, the assessment team found no evidence of the
- 21 presence of PCBs at the site.

#### **3.16 RADON**

- 23 Air Force policy requires the implementation of a Radon Assessment and Mitigation Program
- 24 (RAMP) to determine levels of radon exposure of military personnel and their dependents. No
- 25 permanent structures are located on the subject property. Therefore, no concerns associated with
- radon were identified during the site visit. Information from the U.S. Environmental Protection
- 27 Agency (USEPA) National Radon Database in Appendix G-1, page 32 shows that the subject
- property is in a Zone 2 area with an indoor average radon level between 2 and 4 picocuries per liter
- 29 (pCi/L) (EDR 2005). USEPA assigns one of three zones based on radon potential. Each zone
- designation reflects the average short-term radon measurement that can be expected in a building
- without the implementation of radon control methods. The radon zone designation of the highest
- priority is Zone 1 (greater than 4 picocuries per liter [pCi/L]), followed by Zone 2 (moderate
- potential, from 2 to 4 pCi/L), and finally Zone 3 (low potential, with less than 2 pCi/L). No testing
- or sampling for radon was performed to verify its concentration at the site as part of this document.

#### 3.17 LEAD-BASED PAINT

- Lead has been associated with central nervous systems disorders, particularly among children and
- other sensitive populations. Buildings and structures may contain lead-based paints and other lead
- sources. Other sources include lead piping and solder that may contribute to high lead content in
- the drinking water. Exposure to lead is usually through inhalation during renovations and

- demolition activities or through ingestion of paint chips or lead-contaminated drinking water.
- 2 Although no testing or sampling for lead-based paint was performed as part of this EBS, during
- 3 records review, interviews, and visual site inspections, the assessment team found no evidence of
- 4 the presence of lead-based paint at the site.

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## 4.0 FINDINGS FOR ADJACENT PROPERTY

## 2 4.1 LAND USES

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- 3 The area surrounding the subject property is all located within Lake County, Oregon. Lake County,
- 4 with 8,136 square miles of land has a population density of less than one person per square mile.
- 5 Land surrounding the subject property appears to be primarily used for livestock grazing. No
- of visible structures were evident at the time of the site inspection within one mile of the facility.

## 4.2 SURVEYED PROPERTIES

- 8 ASTM standards and Air Force regulations require that properties within a 1-mile radius of the
- 9 subject property be investigated to determine their potential to affect the subject property. Based on
- the site inspection there do not appear to be environmental liabilities on the surrounding properties
- and no potential issues are apparent that would affect the subject property.

## 4.3 DATABASE SEARCH

- A search of available federal/state databases was conducted to identify potential environmental
- issues associated with the site or surrounding properties (extending up to one mile from the
- site). This search was completed in accordance with the ASTM Standard E-1527 entitled
- "Environmental Site Assessment for Commercial Real Estate," dated 2000. A copy of the search
- 17 report, which was produced by Environmental Data Resources, is included as Appendix G-1.
- The database search identified the no sites within 1.0 miles of the subject property from the
- noted databases (EDR 2005). The EDR report listed 31 Unmapped Sites. These include sites
- that have not been geocoded based on lack of sufficient data regarding their exact locations.
- 21 Based on a review of the address information available for the Unmapped Sites, it appears that
- 22 all these sites, except one, are located at distances greater than 1 mile from the subject
- properties. The one unmapped site listed for Christmas Valley (EDR ID # S106880472) is the Air
- Force OTHB site as identified in the Oregon Environmental Cleanup Site Information System
- 25 (SHWS-ECSI) database. Twenty-four of the 31 sites were listed as being located in Silver Lake
- OR which is 27 miles southwest of the town of Christmas Valley. Four other sites were
- identified in Christmas Valley which is over 10 miles to the west of the subject property.

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# 5.0 APPLICABLE REGULATORY COMPLIANCE ISSUES

## 5.1 COMPLIANCE ISSUES

- 4 In 1992, the Community Environmental Response Facilitation Act (CERFA) amended CERCLA
- 5 and established new procedures for contamination assessment, cleanup, and related activities.
- 6 CERFA supports other environmental laws to ensure that possible adverse effects of property
- transfers on human health and the environment are addressed and that property offering
- 8 potential for reuse and redevelopment is identified expeditiously.
- 9 Based on a review of all Federal, state and local regulations that govern environmental restoration
- and compliance (i.e., CERFA, the Resource Conservation and Recovery Act [RCRA], the Toxic
- Substances Control Act [TSCA], the Clean Water Act [CWA], the Safe Drinking Water Act [SDWA],
- and the Clean Air Act [CAA], as amended), the following compliance issues were found.
- 13 Compliance issues would include violations or potential violations of Federal, state, or local
- laws and regulations that have occurred on the site. According to site personnel, there are no
- past or existing notices of violations associated with the site (personal communication,
- 16 Morehouse 2005).

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- After conducting the visual site inspection and records review in October 2004, the following compliance issues were noted:
  - There were no records onsite of registration of the underground storage tank with the State of Oregon. These tanks were removed in December 2004 in accordance with state regulations (see Appendix G-3).
  - No pesticide management plan or records of application were available onsite at the time of the site inspection. A pesticide management plan has been prepared, but no application records have been found.

#### 5.2 DESCRIPTION OF CORRECTIVE ACTIONS

- 26 Prior to the subject property being transferred an additional action needs to be completed to
- determine the potential liability associated with this property transfer.
- 28 While observed waste disposal practices do not suggest that specific contaminants have entered
- 29 the wastewater system, with the presence of paints, solvents, oils and other hazardous
- materials, there is the potential that these materials may have entered into the septic system.
- There is the potential for contamination to be present in the soils and groundwater surrounding
- the septic system. The soils and groundwater (if present) need to be sampled for total
- petroleum hydrocarbons (TPH), metals, volatile organic compounds (VOCs), and semi-volatile
- organic compounds (SVOCs) to confirm the absence of contaminants.

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## 6.0 CONCLUSIONS

#### 6.1 FACILITY MATRIX

- 3 This section summarizes observed conditions at the subject property using property categories
- 4 that indicate the degree of contamination associated with each property. This classification of
- 5 environmental condition of property area types is consistent with CERCLA Section 120(h)
- 6 requirements relating to the transfer of contaminated federal real property (42 United States
- 7 Code 9601). The property categorization was selected based on guidance in AFI 32-7066 and in
- 8 subsequent guidance provided by HQ USAF/ILEV. The following list identifies the criteria
- 9 applicable to each:

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- 10 Category 1 Areas where no release or disposal of hazardous substances or petroleum
- substances. (including no migration of these substances from adjacent areas)
- *Category 2 –* Areas where only release or disposal of petroleum substances has occurred.
- Category 3 Areas where release, disposal, and/or migration of hazardous substances has
- occurred, but at concentrations that do not require a removal or remediation response.
- 15 Category 4 Areas where release, disposal, and/or migration of hazardous substances has
- occurred, and all removal or remedial actions have been taken.
- 17 Category 5 Areas where release, disposal, and/or migration of hazardous substances has
- occurred, and all removal or remedial actions are underway, but have not yet been completed.
- 19 Category 6 Areas where release, disposal, and/or migration of hazardous substances has
- occurred, but remedial actions have not been implemented.
- 21 Category 7 Areas that are not evaluated or require additional evaluation.
- 22 Property in the first four categories is eligible for deed transfer. Property in the last three
- 23 categories will not be considered for transfer until the necessary actions have been taken and
- the property has been reclassified into one of the first four categories. Leases would be
- considered on a case-by-case basis for properties within the last three categories.

#### 6.2 FINDINGS

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- 27 Findings concerning the environmental conditions at the subject property are based on a
- compilation of all the information presented in this report, as well as any other referenced
- information. Every reasonable effort was made to collect and review all available data. The
- following discussion presents specific findings associated with the subject areas.

#### **Environmental Issues**

Hazardous Materials and Wastes and Petroleum Products and Wastes. During the site
inspection few hazardous material and petroleum products were in use or stored within
the subject property. One waste collection point was in use for the storage of nonhazardous waste products.

- *Storage Tanks*. Based on the available documentation, three 6,000-gallon USTs were previously located on the site. These tanks were removed in December 2004 and soil sampling did not detect any contamination within the subject property.
- *Pesticides*. Herbicide applications are conducted annually to control weeds within the ground screen area. There was no evidence of any misapplication of pesticides observed at the time of the site inspections.
- *Medical and biohazardous waste.* No medical and biohazardous waste sources were observed during the site inspections or as part of the records review.
- *Ordnance.* No ordnance was observed during the site inspections or as part of the records review.
- *Radioactive Waste.* No radioactive materials or wastes were observed at the time of the site inspection of the subject property.
- *Solid Waste.* Solid wastes are collected from buildings within the subject property by site personnel and taken to the local landfill. No active landfills are found within the subject property.
- Wastewater Collection, Treatment and Discharge. Wastewaters generated within the subject property are directed to a septic system. Wastewaters generated from cleaning operations, floor drains, an oil interceptor, and a neutralizing pit in the battery room were directed to the septic system.

#### **Disclosure Factors**

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- *Drinking Water Quality.* Drinking water is available from onsite wells, however personnel onsite prefer to drink bottled water. Sampling of well water has not been conducted while this site has been in caretaker status.
- Asbestos. While there has not been a facility-wide survey for asbestos containing materials, based on the construction date no asbestos containing materials are anticipated to be present.
- *Polychlorinated Biphenyls (PCBs)*. Based on the construction date no PCBs are anticipated to be present on the site.
- *Radon.* According to the USEPA National Radon Database the subject property is located in a zone with a slight potential for the presence of radon.
- Lead-based Paint. While there has not been a facility-wide survey for lead-based paint, given the age of construction of the facilities the presence of lead-based paint is not anticipated.

#### 6.3 CONCLUSIONS

- Conclusions drawn for this EBS are based primarily on observations of conditions made at the
- time of the site inspection and on information made available through records and database
- searches and interviews. No surface, subsurface, waste characterization, or air samples were
- collected as part of this EBS. Every reasonable effort was made to collect and review all
- 39 available information for this EBS.
- Based on the findings for this EBS, facilities inspected in October 2004, with the exception of the
- septic systems which are classified Category 7, can be classified Category 1. The following

- 1 recommendations are made to develop the information necessary to clarify that the septic systems
- 2 can be classified as Category 1 through 4.

## **3 6.4 DATA GAPS**

4 At the present time no data gaps have been identified.

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## 7.0 **RECOMMENDATIONS**

- 2 Based on the findings for this EBS, facilities inspected in October 2004, with the exception of the
- septic systems which are classified Category 7, can be classified Category 1. The following
- 4 recommendations are made to develop the information necessary to clarify that the septic systems
- 5 can be classified as Category 1 through 4.

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• Septic Systems. While observed waste disposal practices do not suggest that specific contaminants have entered the wastewater system, with the presence of paints, solvents, oils and other hazardous materials, there is the potential that these materials may have entered into the septic system. There is the potential for contamination to be present in the soils and groundwater surrounding the septic system. The soils and groundwater (if present) need to be sampled for total petroleum hydrocarbons (TPH), metals, volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) to confirm the absence of contaminants.

# PHASE I ENVIRONMENTAL BASELINE SURVEY

Over-The-Horizon Backscatter Radar Site Christmas Valley, Oregon 97641

Shaw Project No.: 139122

April 2010

Prepared for:

Oregon Military Department 1776 Militia Way SE Salem, OR 97301

Submitted by:

Shaw™ Shaw Environmental, Inc. 10300 SW Nimbus Ave, Suite B Portland, OR 97223

## PHASE I ENVIRONMENTAL BASELINE SURVEY

## Christmas Valley, Oregon 97641

Shaw Project No.: 139122

April 2010

I declare that, to the best of my professional knowledge and belief, I meet the definition of *environmental professional*, or have worked under the supervision or responsible charge of a person meeting the definition of *environmental professional*, as defined in Section 312.10 of 40 CFR.

Prepared by:

Audrey Turpening

Date: April 30, 2010

I declare that to the best of my professional knowledge and belief, I meet the definition of *environmental professional* as defined in Section 312.10 of 40 CFR, and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Section 312.

Reviewed by: Date: April 30, 2010

Dave Seluga

Staff Engineer

Client Program Manager

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# **Executive Summary**

Shaw Environmental, Inc. (Shaw) is pleased to present this Phase I Environmental Baseline Survey (Phase I EBS) report. Below is an overview of the project, including a summary of our significant findings:

Property name:	
Property name.	Over-The-Horizon Backscatter (OTH-B) Radar Site
Property address (o legal or physical Pr	operty Oregon; three (3) miles north of County Highway 5-14.
location description	The approximate center of the Property is located at 43°16′34.02″N and 120°23′01.72″W. The Property lies within Township 26S, Range 20E, Sections 19, 30 & 31 and Township 27S, Range 20E, Section 6.
User of this report:	Oregon Military Department
Reason for request Phase I ESA:	ing the Identification of Recognized Environmental Concerns
Date of site reconna	aissance: April 14, 2010
Property descriptio	Approximately 2,300 acres of currently undeveloped land. The entire 2,300 acres property is split into three parcels of equal size, measuring approximately one square mile each, and also includes the perimeter roads around each parcel. The parcels are defined as Sector 4, Sector 5, and Sector 6, now and herein described as the north array, center array, and south array, respectively. The three parcels lie in an arc shape, with the apex facing to the east. Rock and six-inch wire mesh covers the eastern portion of each parcel from the eastern edge to approximately 800 feet in from the edge and spanning from the north edge to the south edge, totaling approximately 150 acres per array, 450 acres total. This rock and wire mesh was used for the backscatter radar array ground screen. The pilings from the former radar towers are observed all along the eastern edge of each parcel. See Figure 2 for details.
Property operations	Property is currently vacant; weekly maintenance of the Property occurs, however there are no currently active operations.
	-
	Summary of Property History
At least 1970 to Present Owned by the United States Government and used as an OTH-B Radar Array for the US Air Fo	

## **Conclusions and Recommendations**

## Historical Recognized Environmental Conditions and de Minimis Conditions

This assessment has revealed no evidence of historical RECs or de minimis conditions in connection with the Property.

## Environmental Condition of Property

Shaw has performed a Phase I EBS in conformance with the scope and limitations of ASTM E2247 and the ARNG Environmental Condition of Property Standard Operating Procedure dated 3-14-2007 (SOP) of the western 2,300 acres of the Over-the-Horizon Backscatter (OTH-B) Radar Site (the Property). Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the Property. In addition to the evaluation of recognized environmental conditions, Shaw was asked to conduct an assessment of selected non-scope considerations, the findings of which are presented in Section 3.7 of this report. This assessment has revealed no evidence of other environmental concerns in connection with the Property.

Figure 1, Environmental Condition of Property, is presented in Appendix C.

## Known or Suspected Areas with Transfer Restrictions

Based on the findings of this Phase I ESA, Shaw recommends the following additional investigations:

• The entire 2,300 acre Property has been surveyed by the Oregon State Historical Preservation Office (SHPO). Over seventy (70) resources were discovered on the Property, some of which are likely to be important and are eligible for inclusion into the National Register. In accordance with SHPO regulations, known sites that are eligible for inclusion or are listed in the National Register must be protected within the State of Oregon. Known sites that lie within the constructed radar array area, including the radar tower footings and rock and wire mesh covered areas, have been previously mitigated with SHPO prior to construction.

Locations of the remainder of these resources must be determined and properly managed with regards to future use of the Property, in accordance with SHPO rules and regulations.

## 1.0 Introduction

## 1.1 Location and Property Identification

Property name:	Over-The-Horizon Backscatter (OTH-B) Radar Site
Property address (or other legal or physical Property location description):	Located fourteen (14) miles east of the town of Christmas Valley, Lake County, Oregon; three (3) miles north of County Road 5-14.
	The approximate center of the Property is located at 43°16′34.02″N and 120°23′01.72″W. The Property lies within Township 26S, Range 20E, Sections 19, 30 & 31 and Township 27S, Range 20E, Section 6.

## 1.2 References

Résumés or other biographical sketch of the Environmental Professional(s) involved in the preparation of this report are included in Appendix A.

## 1.3 Methodology

## Scope of Services

Shaw conducted the work in accordance with the following specifications (hereinafter collectively referred to as the "Scope":

ASTM International (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property, Designation E 2247-02 (ASTM E2247).

ARNG Environmental Condition of Property SOP, dated 3-14-2007 (SOP).

As outlined in Appendix C of the SOP, this assessment included the evaluation of selected Special Contamination Concerns, the findings of which are presented in Section 8.0 of this report

Limitations to this assessment are presented in Appendix B of this report.

## Objective of this Phase I EBS:

The objective of this Phase I EBS was to identify, to the extent feasible, recognized environmental conditions (REC) as defined by ASTM E2247, and to evaluate selected non-scope considerations beyond ASTM E2247.

The term *recognized environmental conditions* means "the presence or likely presence of any hazardous substances or petroleum products on any federal real property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into the environment." **ASTM E2247** 

Exceptions to, or deletions from, the above referenced Scope of Work, including significant data gaps:	No historical information prior to 1970.
Weather-related property restrictions:	None
Facility access restrictions:	None

# 2.0 Property Description and Environmental Settings

# 2.1 Property Description

Property description (acreage, structures, roads, and other improvements):	Approximately 2,300 acres of currently undeveloped land. The entire 2,300 acres property is split into three parcels of equal size, measuring approximately one square mile each, and also includes the perimeter roads around each parcel. The parcels are defined as Sector 4, Sector 5, and Sector 6, now and herein described as the north array, center array, and south array, respectively. The three parcels lie in an arc shape, with the apex facing to the east. Rock and six-inch wire mesh covers the eastern portion of each parcel from the eastern edge to approximately 800 feet in from the edge and spanning from the north edge to the south edge, totaling approximately 150 acres per array, 450 acres total. This rock and wire mesh was used for the backscatter radar array ground screen. The pilings from the former radar towers are observed all along the eastern edge of each parcel. See Figure 2 for details.
Estimated percentage of property covered by buildings and/or pavement:	Approximately 20% of the Property is covered by rock and 6-inch wire mesh for the array ground screen. The rest of the Property is undeveloped.
Property operations:	Former United States Air Force (USAF) Over-The-Horizon Backscatter (OTH-B) Radar Array.
Type of sewage disposal system (and age):	No sewage disposal system is located on the Property. The eastern adjacent 300 acre parcel that is also part of the OTH-B Radar site is equipped with a septic system. None of this system lies within the boundaries of the Property.
Potable water source:	Groundwater well
Electric utility:	Pacific Power
Natural gas:	None
Energy source(s) for heating:	Electricity
Current uses of adjoining properties,	
North:	Undeveloped land, Christmas Valley sand dunes
South:	County Highway 5-14, undeveloped land
East:	Undeveloped land
West:	Undeveloped land, town of Christmas Valley 14 miles west.

Figure 2 in Appendix C presents a not-to-scale site plan of the Property depicting important Property features and relevant observations. Site photographs are provided in Appendix D.

## 2.2 Physical Setting of Property

Topography:	Property lies at an elevation of 4,300 feet above mean sea level (amsl). The site is relatively flat, with only a 4 foot increase in elevation one half mile to the southeast.
Geology	The Property lies on the Flagstaff soil component, which are silt loam soils with very slow infiltration rates. Soils are clayey with a high water table and have a low hydraulic conductivity.
	Boundary Layers: <u>0-3 inches:</u> silt loams, consisting of fine-grained soils, permeability 0.06 – 0.20 in/hr, pH 7.90 – 9.00 <u>3-14 inches:</u> silty clay loam, consisting of fine-grained soils, permeability 0.06 – 0.20 in/hr, pH 8.50 – 9.00. <u>14-60 inches:</u> cemented.
Hydrogeology:	The Property lies within a Pacific Northwest basaltic-rock aquifer, which is an igneous and metamorphic rock aquifer. Igneous and metamorphic rocks are only permeable where they are fractured, and they generally yield only small amounts of water. However, these rocks extend over large areas and therefore large volumes of groundwater may be withdrawn from them. Movement of water through the rocks is totally dependent on the presence of secondary openings; rock type has little to no effect on groundwater flow.
Flood plain:	The Property does not lie within a FEMA flood plain.
Depth to groundwater:/ gradient:	Oregon Water Resources Department (WRD) maintains State Observation Wells throughout the state of Oregon. Multiple wells are located within Lake County, three of them within 10 miles of the center of the site. State Wells include Lake 1210 located 3.5 miles southeast, Lake 673 located 7.5 miles northwest, and Lake 284 located 8.5 miles west of the Property. Groundwater levels in these wells show a steady decreasing trend; November 2008 groundwater levels were 35.86 feet bgs, 28.47 feet bgs, and 24.51 feet bgs, respectively. With available information, gradient cannot be determined.

## Sources of the above information include:

- Nationalatlas.gov Map Maker U.S. Department of the Interior, U.S. Geological Survey, Aquifer Basics, last updated 04/2009.
- EDR Geocheck® Physical Setting Source Addendum, Inquiry Number 2744861.2s
- Oregon Water Resources Department Water Level Data and Hydrographs for Lake County.

## 2.3 Sensitive Environments and Natural/Cultural Resources

Kris Mitchell of the Oregon Military Department NEPA/Cultural Resource Management office was interviewed regarding natural resources, cultural resources and sensitive environments on the Property.

The entire 2,300 acre Property has been surveyed by the Oregon State Historical Preservation Office (SHPO). Over seventy (70) resources were discovered on the Property, some of which are likely to be important and are eligible for inclusion into the National Register. In accordance with SHPO regulations, known sites that are eligible for inclusion or are listed in the National Register must be protected within the State of Oregon. Known sites that lie within the

constructed radar array area, including the radar tower footings and rock and wire mesh ground screen, were previously mitigated with SHPO prior to construction.

Locations of the remainder of these resources must be determined and properly managed with regards to future use of the Property, in accordance with SHPO rules and regulations.

## 3.0 Past and Current Operations

#### 3.1 Interviews

During the course of this assessment, Shaw interviewed or attempted to interview the following individuals.

## 3.1.1 Current Owner Interview

The Property is currently owned by the United States Government. General Services Administration (GSA) is an entity of the United States Government that is managing the disposal, or sale, of the Property. For the purposes of this report, GSA will be considered the current owner's representative.

Blaine Hastings of GSA, the Property owner's representative, was interviewed on April 26, 2010. Based on these discussions, Shaw learned the following:

- Mr. Hastings stated that he was unaware of any pending, threatened, or past:
  - 1. Litigation relevant to hazardous substances or petroleum products in, on, or from the Property;
  - 2. Administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property; or
  - 3. Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.
- Mr. Hastings was unaware of other potential environmental risks.

## 3.1.2 Current Operator Interview(s)

Name	Title and Relationship to Property (former owner or operator)	Company Name	Telephone	Knowledge of litigation, administrative proceedings, or environmental regulatory violations/liabilities (Y/N)	Comments, including year(s) involved with the Property
Bruce Vollstedt	Maintenance and Operations Supervisor	Oregon Military Department	541-325- 6005	N	Currently maintains the Property. Visits the site once per week. Been involved with the Property since approx. October 2009.

NOTE: To ascertain Operator knowledge of environmental issues, Shaw asked each person interviewed the following question: Are you aware of any pending, threatened or past litigation relevant to hazardous substances or petroleum products in, on, or from the Property;

administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property; or notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

## 3.1.3 Past Property Owner and Operators Interviews

Since at least 1970, the United States Government has owned the Property. Therefore, no past Property owners were assumed during the course of this Phase I EBS.

## 3.1.4 Local Government Officials

Shaw interviewed the following local government officials, and learned the following:

Name	Title	Agency	Telephone	Comments
Lorene Blair	Chief Assessors Deputy	Lake County	541-947-6000	Provided Shaw with tax lot maps and ownership information for the Property

## 3.1.5 State Government Officials

Shaw interviewed the following state government officials, and learned the following:

Name	Title	Agency	Telephone	Comments
Jim Arnold	Environmental Restoration Manager	Oregon Military Department	503-584-3551	Mr. Arnold provided Shaw will previous EBS documents and other documentation regarding past and current operations on the site.
Kris Mitchell	NEPA/Cultural Resource Management	Oregon Military Department	503-584-3164	Mr. Mitchell informed Shaw of Cultural and Natural Resources located on the Property.

## *3.1.6 Others*

Shaw did not interview any other individuals during the course of this Phase I EBS.

## 3.2 Standard Environmental Records Sources

The regulatory agency database was obtained from Environmental Data Resources, Inc. (EDR), Report ID No. 2744861.2s. A complete copy of the database report as provided by EDR

including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix F.

The Property was identified in the following in the environmental databases:

Database(s) Listed	Comments	
DOD	The West Coast Over The Horizon Backscatter Radar System is listed as a Department of Defense (DOD) feature. There are no RECs associated with this listing	N

## 3.2.1 Local Fire Department Records

Agency Contacted (Name, Address, Phone Number)	Description of records
Office of State Fire Marshal, CR2K 4760 Portland Road NE	The State Fire Marshal Community Right to Know (CR2K) program provides records of all state fire department responses and properties that handle reported hazardous substances within the State of Oregon.
Salem, OR 97305-1760	Information was requested on April 21, 2010. A response from CR2K was not reasonably ascertainable within the time of this Phase I EBS.

## 3.2.2 Local Health Department/ State Environmental Agency Records

Agency Contacted (Name, Address, Phone Number)	Description of records
Oregon Building Code Division – Department of Human Services PO Box 14470 Salem, OR 97309 503-378-4133	The Oregon Building Codes Division (BCD), along with the Department of Human Services, keeps a running list of uninhabitable properties in Oregon due to clandestine drug lab use. There are no listings in Lake County, as of the last update in the database (June 2006).
Oregon Department of Environmental Quality (ODEQ) 475 NE Bellevue, Suite 110 Bend, OR 97701	The Property was listed on the Environmental Cleanup Site Information (ECSI) database under the name Christmas Valley Radar Base, ECSI #4352. In March 2005, the site was added to the ECSI database to track the decommissioning of a military installation. The file was closed in August 2006 after the US Military Environmental Assessment was turned in to ODEQ.

Photocopies of relevant supporting materials documenting the status of RECs, where readily ascertainable, are included in Appendix E.

## 3.3 Historical Records Search

The table below presents a summary of the operational history of the Property. The summary is an integration of the findings of the individual historical record sources presented in subsequent sections.

Summary of Property History		
Dates	Property Use	
At least 1970 to Present	Owned by the United States Government and used as an OTH-B Radar Array for the US Air Force.	

## 3.3.1 Aerial Photographs

Year	Scale	Observations
1974	1" = 6333'	The Property appears undeveloped. On the surrounding areas, the County Road 5-14 is observed to the south, and the powerlines are observed running diagonal to the northwest. The road that currently leads to the Property from Co Hwy 5-14 is observed.
1982	1" = 6666'	No apparent changes are observed on the Property or immediately surrounding areas. Farther west agricultural circular crops are observed.
1994	1" = 3333'	The OTH-B Radar site is observed. All of the features appear equivalent to present day features, except the radar towers are observed. The radar towers have since been removed.

Historical aerial photographs were obtained from, or viewed at, the following sources:

• The EDR Aerial Photo Decade Package, Inquiry Number: 2744861.9

## 3.3.2 Topographic Maps

Year	Scale	Observations	
1981	1:24,000	No development is observed. Note that the scale of the topographic map does not show the entire Property area, only the western center portion.	
1990	1:100,000	No development is observed. The Property lies north of Buffalo Flat and south of Sand Dunes in Lake Valley. Co Hwy 5-14 is observed to the south, and powerlines are observed running northwest. Various small roads are observed on the east and west, however no development or roads are observed through the Property.	

Year	Scale	Observations
2001	1:100,000	The Property is identified as "USAF Radar Site (No Public Access)". It lies within T26S, R20E, Sections 19, 30 & 31 and R27S, R20E, Section 6. No apparent changes are observed in the surrounding areas. Bureau of Land Management (BLM) colored and crosshatched designations indicate the Property as Military Reservations and Withdrawals Corps of Engineers, the surrounding yellow areas are designated National Resource Lands or Public Lands Administered by BLM, and the vertical crosshatching indicates all mineral rights are owned by the Federal Government.

Historical topographic maps were obtained from, or viewed at, the following sources:

- The EDR Historical Topographic Map Report, Inquiry Number: 2744861.4
- Bureau of Land Management Land Status Legend

## 3.3.3 Historical Fire Insurance Maps

Shaw was unable to access reasonably ascertainable historical fire insurance maps from the following sources:

• EDR Certified Sanborn® Map Report, Inquiry Number: 2245643.3

## 3.3.4 City Directories

Shaw was unable to access reasonably ascertainable historical city directories from the following sources:

• EDR City Directory Abstract, Inquiry Number: 2744861.6

## 3.3.5 Property Tax Files

Year	Owner
At least 1970 – Present	Tax Lot 100: United States
2010	Adjacent 326 acre parcel to west side was partitioned off as Tax Lot 101, owned by Oregon Military Department. Property is still designated Tax Lot 100, owned by the United States.

Source of ownership information:

• Lake County Assessor's Office

## 3.3.6 Building Department Records

Shaw was unable to access reasonably ascertainable historical building permit records.

## 3.3.7 Zoning/Land Use Records

The entire of the Property is zoned A-2: Agricultural Use.

Source of zoning information:

• Lake County Land Use & Planning Office

#### 3.4 Hazardous Materials

According to a previous Phase I EBS conducted by the US Air Force Air Combat Command in 2006, the roads on the Property were historically treated with magnesium chloride for dust suppression. This compound is approved by the BLM for this use.

## 3.5 Hazardous Wastes

There are no reported hazardous wastes historically or currently generated, used or stored on the Property.

## 3.6 Petroleum Products

There are no reported petroleum products historically or currently stored or used on the Property.

## 3.7 Other Environmental Contamination

Shaw investigated the following as part of the scope of this Phase I EBS.

## 3.7.1 Lead-Based Paint

There are no buildings on the Property, and the Property was developed beginning in 1986; therefore lead-based paint (LBP) is not considered an environmental issue at the Property.

#### 3.7.2 Asbestos

There are no buildings or insulated equipment on the Property, therefore asbestos containing material (ACM) is not considered an environmental issue at this Property.

## 3.7.3 Radon

Shaw's assessment of radon was limited to research of published information specific to the general area of the Property location. Radon is a colorless, tasteless, radioactive gas with an EPA-specified action level of 4.0 picoCuries per liter (pCi/L) of air. Radon gas has a very short half-life of 3.8 days. The health risk potential of radon is associated with its rate of accumulation within confined areas, particularly confined areas near or in the ground, such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure.

According to regional radon information obtained from the EPA the Property is located within EPA-designated Zone 2 for radon gas. Average radon concentrations within Zone 2 are reported to be between 2.0 and 4.0 pCi/L. Based on Shaw's review of available information, as well as

the lack of buildings on the Property, elevated radon levels do not appear to represent a potential environmental risk

#### 3.7.4 Pesticides

Shaw's assessment of the use of pesticides on the Property was limited to research of published information and interviews. The following information related to on-site use of agricultural chemicals was discovered during this Phase I EBS.

Remaining files located at the OTH-B Radar site and previous Phase I EBS reports indicated pesticide and herbicide use on the Property. Licenses for herbicide application from 1993 to 1997 were observed, using a 1% solution of Round-Up® with 2,4-dichlorophenoxyacetic acid (2,4-D). Round-Up® and 2,4-D are common commercially available herbicides. Other herbicides that have reportedly been used on site are Crossbow® and Krovar®. Herbicides were utilized within the ground screen area (rock covered with 6" wire mesh) to remove unwanted vegetation.

Licenses for pesticide application from 1995 to 1997 were observed. There was a notice of license lapse for pesticide use in 2005; therefore it is likely that pesticide use continued through to at least this time. The type of pesticides used was not determined.

Based on the timeframe of pesticide use and the fact that licensing was obtained to use these products, pesticides do not appear to be an environmental issue on the Property.

## 3.7.5 Polychlorinated Biphenyls (PCBs)

Development of the Property did not begin until 1986, and there are no buildings, generators or other oil-containing equipment located on the Property. Therefore, PCBs are not considered an environmental issue on the Property.

## 3.7.6 Unexploded Ordnance (UXO)

Shaw's assessment of the Property included the possible existence of UXO on the site. Based on documented historical uses of the Property, no munitions were ever used or stored on the Property. UXO does not appear to be an environmental issue to the Property.

## 4.0 Site Reconnaissance

Shaw's representative, Audrey Turpening, conducted a site reconnaissance of the Property and surrounding area. The objective of the site reconnaissance was to obtain information indicating the presence of RECs in connection with the Property.

## 4.1 Methodology

Shaw used the following methodology to observe the Property:

- Confirmed the definition of the Property boundaries with the Property owner's representative
- Traversed the outer Property boundary
- Traversed transects across the Property

Shaw did not look at areas where gaining access may have required destructive techniques or presented unique health and safety concerns.

Photographs of the Property and adjacent properties are included as Appendix D of this report.

## 4.2 Site Reconnaissance Observations

## 4.2.1 Property Representative Escorting Site Assessor

Name of Property Representative and relationship to the Property	Company	Title	Years of Experience with Property and Other Site Qualifications
Bruce Vollstedt	Oregon Military Department	Maintenance and Operations Supervisor	6-7 months

#### 4.2.2 Interior Observations

There are no buildings located on the Property.

#### 4.2.3 Exterior Observations

Shaw made the following exterior observations during out site reconnaissance:

Issue	Comments
Hazardous materials or petroleum products	None observed

Issue	Comments				
Hazardous waste	None observed				
Solid waste	None observed				
Wells	None observed				
Process wastewater	None observed				
Storm water	There are storm water drainage ditches along either side of the perimeter roads, and culverts built underneath the roadways to prevent road flooding. The area gets very little rain, and the soils provide very poor drainage. Storm water will pool in low areas on the Property and around the perimeter of the Property, and slowly infiltrate into the soils.				
Drains, sumps, and drywells	None observed				
Odors	None observed				
PCB-containing equipment	None observed				
Pits, ponds, or lagoons; Property	None observed				
Stained soil or pavement	None observed				
Stressed vegetation	The local vegetation in the area consists of treeless shrub steppe. The rock and wire mesh covered ground screen areas have less vegetation due to the rock covering and past herbicide use, however the natural landscape is somewhat sparse, so this lack of vegetation would not be considered denuded.				
General exterior yardkeeping	Good, no debris observed. Site is currently maintained by Oregon Military Department, and "No Trespassing" signs are posted along the perimeter of the Property.				

## 4.2.4 Underground Storage Tanks/Structures

Existing underground storage tanks (UST):	There were no existing on-site USTs reported or observed.			
Former USTs:	There were no former on-site USTs reported or observed.			

NOTE: Shaw's assessment of USTs included interviews with the Property Owner/Operator and visually apparent observations including repairs to pavement, vent pipes, ancillary equipment, and fill ports; as well as a review of readily ascertainable records relating to current and historical heating fuel sources and local and state records.

## 4.2.5 Aboveground Storage Tanks

Existing aboveground storage tanks (AST):	There were no existing on-site ASTs reported or observed.
Former ASTs:	There were no former on-site ASTs reported or observed.

NOTE: Shaw's assessment of ASTs included interviews with the Property Owner/Operator and visually apparent observations including repairs to pavement, tank pads and ancillary equipment, and spill containment berms; as well as a review of readily ascertainable records relating to current and historical heating fuel sources and local and state records.

### 4.2.6 De minimis Conditions

ASTM defines de minimis conditions as those that "generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies," i.e., minor soil staining. There were no de minimis conditions identified during the course of this Phase I EBS.

## 5.0 Response Actions

## 5.1 Ongoing Response Actions

There are currently no ongoing response actions for the Property with an environmental regulatory agency.

## 5.2 Closed Response Actions

ODEQ opened an ECSI file on the Property under the name Christmas Valley Radar Base, ECSI #4352. The Property was added to the ECSI database for tracking of a military installation during decommissioning. No contamination was recorded on the database during the decommissioning process, and the file was closed in August 2006.

#### 6.1 Historical Records Search

The table below presents a summary of the operational history of the Property. The summary is an integration of the findings of the individual historical record sources presented in subsequent sections.

Summary of Adjacent Property History				
Dates	Property Use			
At least 1970 – Present	Undeveloped land. Currently owned by the United States and managed by BLM.			

#### 6.1.1 Standard Environmental Records Search

Regulatory database information found no listings within three (3) miles of the Property.

### 6.1.2 Aerial Photographs

Year	Scale	Observations
1974	1" = 6333'	Surrounding areas appear undeveloped. Roads are observed to the south, east and west, and powerlines are observed running northwest off of Co Hwy 5-14.
1982	1" = 6666'	Circular crops are observed farther to the west, otherwise no apparent changes are observed.
1994	1" = 3333'	The 300 acre parcel to the east of the Property is developed, which includes the infrastructure attached to the radar array. The surrounding areas appear undeveloped.

Historical aerial photographs were obtained from, or viewed at, the following sources:

• The EDR Aerial Photo Decade Package, Inquiry Number: 2744861.9

## 6.1.3 Topographic Maps

Year	Scale	Observations			
1981	1:24,000	Unpaved roads are observed to the south, west and north. The area lies at an elevation of about 4295 - 4300 feet above mean sea level.			
1990	1:100,000	Buffalo Flat lies to the south, Sand Dunes lie to the north, and Wildcat Butte lies to the east. No development is observed except roads and some property plot lines.			

Year	Scale	Observations
2001	1:100,000	The surrounding area is BLM designated National Resource Lands or Public Lands Administered by BLM, and the vertical crosshatching indicates all mineral rights are owned by the Federal Government.

Historical topographic maps were obtained from, or viewed at, the following sources:

• The EDR Historical Topographic Map Report, Inquiry Number: 2245643.4

#### 6.1.4 Historical Fire Insurance Maps

Shaw was unable to access reasonably ascertainable historical fire insurance maps from the following sources:

• EDR Certified Sanborn® Map Report, Inquiry Number: 2744861.3

#### 6.1.5 City Directories

Shaw was unable to access reasonably ascertainable historical city directories from the following sources:

• EDR City Directory Abstract, Inquiry Number: 2744861.6

#### 6.1.6 Zoning/Land Use Records

All of the surrounding areas are zoned A-2: Agricultural Use.

Source of zoning information:

• Lake County Land Use & Planning Office

### 7.1 Historical Recognized Environmental Conditions and de Minimis Conditions

This assessment has revealed no evidence of historical RECs or de minimis conditions in connection with the Property.

## 7.2 Environmental Condition of Property

Shaw has performed a Phase I EBS in conformance with the scope and limitations of ASTM E2247 and the ARNG Environmental Condition of Property Standard Operating Procedure dated 3-14-2007 (SOP) of the western 2,300 acres of the Over-the-Horizon Backscatter (OTH-B) Radar Site (the Property). Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the Property. In addition to the evaluation of recognized environmental conditions, Shaw was asked to conduct an assessment of selected non-scope considerations, the findings of which are presented in Section 3.7 of this report. This assessment has revealed no evidence of other environmental concerns in connection with the Property.

Figure 1, Environmental Condition of Property, is presented in Appendix C.

## 7.3 Known or Suspected Areas with Transfer Restrictions

Based on the findings of this Phase I EBS, Shaw recommends the following additional investigations:

• The entire 2,300 acre Property has been surveyed by the Oregon State Historical Preservation Office (SHPO). Over seventy (70) resources were discovered on the Property, some of which are likely to be important and are eligible for inclusion into the National Register. In accordance with SHPO regulations, known sites that are eligible for inclusion or are listed in the National Register must be protected within the State of Oregon. Known sites that lie within the constructed radar array area, including the radar tower footings and rock and wire mesh covered areas, have been previously mitigated with SHPO prior to construction.

Locations of the remainder of these resources must be determined and properly managed with regards to future use of the Property, in accordance with SHPO rules and regulations.

## $Appendix\,A$

Qualifications of Environmental Professionals

## **David Seluga**

#### **Experience Highlights:**

- More than 25 years of experience managing and assisting client to meet their environmental obligations.
- Experience conducting audits and internal investigations and identifying regulatory impacts.
- Broadly knowledgeable in regulatory requirements, compliance assurance methods, and due diligence.

#### Office Location:

Portland, OR

#### **Education**

Post-Baccalaureate studies in Process Management, Oregon Institute of Technology, Klamath Falls, OR BS, Wood Science and Engineering, Oregon State University, Corvallis, OR

#### **Additional Training**

Production Management, Labor Relations, Total Quality Statistical Process Control, Leadership Institute, Total Quality Environmental Audit Training, Team Leadership/Management Support Role, Team Interaction, Rapid Change, Business Process Improvement, Capital Projects Management Systems

#### **Affiliations**

Charter Member, Oregon Department of Environmental Quality (ODEQ) Western Region Industry Roundtable

Sustaining member, National Council for Air and Stream Improvement

## **Background Summary**

Mr. Seluga is a senior project manager in Shaw's Portland, Oregon, office with more than 25 years of experience managing and assisting industrial facilities to meet their environmental obligations as well as to improve operational efficiencies. He has career-long experience in industry as a facility staff scientist and manager, corporate consultant, and independent consultant. Mr. Seluga has experience conducting compliance audits and internal investigations, identifying regulatory impacts, assessing contamination risks, and implementing needed facility changes. Mr. Seluga's industrial environmental experience includes obtaining and managing environmental permits for various manufacturing facilities as well as being responsible for all regulatory relationships. He is broadly knowledgeable in

regulatory requirements, compliance assurance methods, and due diligence.

#### **Relevant Experience**

- Port of Portland, EMS Assessment and Implementation, Project Manager. Currently serving as Project Manager and primary point of contact with the client. Manages the day-to-day aspects of the project, provides peer/senior review of procedures and standard operating procedures, and assisted in the development of the EMS manual for the Port EMS.
- Oregon Department of Transportation, Client Manager. Served as client interface and overall project director for the following Oregon Department of Transportation projects:
  - Klamath Falls Hazardous Materials Corridor
     Assessment Project manager for a two mile
     hazardous materials assessment along Highway
     97 in southern Oregon. On time, on budget
     project.
  - Detroit Lake Oil Spill Project manager and client lead for evaluating clean up solutions for an oil spill near Detroit lake. On time and on budget project.
  - Humbug Mountain Hazardous Materials
     Inventory Project manager for a hazardous materials assessment of three buildings in the ODOT right-of-way on the Oregon coast. On time and on budget project.
  - Redmond Sidewalk Infilling Project manager for a 12 city block hazardous materials assessment for sidewalk placement along Highway 97. On time and on budget.
  - Redmond US 97 Reroute Project manager and client lead for two high profile cleanups of sites in the ODOT reroute of Hwy 97 in Redmond, OR. On time and on budget.
- Confidential Retail Client; Project Director, Compliance Support; Western US. Western US Lead for exception review, implementation, and compliance support program for a confidential retail client. Coordinated, communicated, and implemented a compliance based review of 500 stores in the western US. Coordinated the review efforts of two outside consultant firms, two legal firms, and the client project management team.
- Weyerhaeuser Company, Client
   Manager/Project Manager. Served as client
   interface and overall project director for the
   following Weyerhaeuser projects:

- Wood Products Roundtable Served as a member of the roundtable to develop an ISO compliant Weyerhaeuser-wide EMS.
- Mt. Solo Landfill Post-Closure Operations and Maintenance — Project manager overseeing three field technicians monitoring landfill gas systems.
- Ostrander Rock Landfill Post-Closure
   Operations and Maintenance Project manager overseeing three field technicians monitoring landfill gas systems and stormwater.
- Wimer Truck Shop Phase 2 Investigation —
   Project manager for a detailed Phase 2 subsurface investigation of a former truck shop in Lebanon,
   OR. On time and on budget project.
- Headquarters Landfill Water Monitoring —
   Project manager overseeing three technicians completing surface and subsurface water monitoring.
- Louisiana-Pacific, Client Manager/Project Manager. Served as client interface and overall project director for the following LP projects:
  - Comparative Study of Best-in Class EMS —
     Project manager and client lead for evaluating best in class EMS in the US. On time and below budget project.
  - EMS Development Assisted five sawmills in Idaho and Montana in the development of a compliance-based EMS.
  - Elk Creek and Red Bluff Landfill Post-closure Monitoring — Project Manager for subsurface water monitoring of two closed landfills in CA.
  - Limited-Scope Phase II ESA for at the Hillsboro Airport — Project manager for a Phase 2 subsurface investigation at the Hillsboro airport as part of an LP divestiture.
- 7-Eleven Western Region Project Manager.
   Project manager overseeing four auditors in eight western states involved in completing gas station hazardous materials audits and a review of the gas EMS.

## **Audrey Turpening, EIT**

#### **Experience Highlights:**

Experience with Phase I Environmental Site Assessments (ESAs); data management and reporting; field work, including assistance with petroleum, polychlorinated biphenyls, and drilling; Spill Prevention, Control and Countermeasure (SPCC) Plans, Water Pollution Control Facilities (WPCF) and Stormwater Pollution Control Plans (SWPCP).

#### **Office Location**

Portland, OR

#### **Education**

BS, Chemical Engineering, Oregon State University, Corvallis, OR.

Registered Engineer in Training, Cert #80505EIT, 2008

#### Additional Training

40 hr HAZWOPER certification, 2006, Portland, OR 8hr HAZWOPER refresher, 2009, Portland, OR

#### **Affiliations**

American Institute of Chemical Engineers, Member, 2006

## **Background Summary**

Ms. Turpening is currently an Engineer 1 in Shaw's Portland, OR office. She has about two years experience with environmental engineering and consulting, including over twenty-five Phase I ESAs, data management for large cleanups, and field work in petroleum, asbestos, and polychlorinated biphenyls cleanups. Ms. Turpening has also assisted in Phase II sampling events, including drilling, sampling, documentation, data management and reporting. She has experience writing Spill Response Reports, Quarterly and Annual Monitoring Reports, and Oregon Department of Environmental Quality correspondence. Ms. Turpening has extensive experience preparing Spill Prevention, Control and Countermeasure (SPCC) Plans, Phase I ESAs, and Stormwater Plans in Oregon and Washington.

#### **Relevant Experience**

- Oregon Department of Transportation Redmond Highway 97 Reroute; Engineer –
  Field Work; Redmond, OR. Served as an
  assistant engineer in various aspects of the
  project, including site mapping, soil sampling,
  and data management. Sampling included soils
  with polychlorinated biphenyls, petroleum, and
  asbestos.
- First Strike Environmental Roberts Creek Spill; Engineer Beneficial Use Survey; Roseburg, OR. Completed a Beneficial Use Survey for the site after a large petroleum spill, managed all data from sampling events at the site for six months, and assisted with the Spill Response Report to receive No Further Action from ODEQ.
- Shore-Bank Pacific Phase I ESA; Oregon.
  Completed residential Phase I ESA in Portland,
  OR. Assisted with a residential Phase I ESA in
  Warrenton, OR, including the discovery of an
  UST by means of historical research and personal
  interviews. Assisted with a Phase II on a
  commercial site in Portland, OR, including soil
  sampling and drafting a site plan.
- Confidential Client Phase I ESA; Oregon.
   Conducted multiple Phase I ESAs for residential, commercial, and industrial sites in Oregon and Washington. Sites included commercial, industrial, residential, and vacant residential and commercial sites for future development.
- Oregon Military Department Phase I Environmental Baseline Survey (EBS) and Environmental Condition of Property (ECOP); Oregon. Conducted two Phase I EBS based on Oregon Military Department standards, including an ECOP designation for the entire Property. Properties included a military base and an agricultural lot.
- Confederated Tribes of the Grand Ronde Phase I ESA; Oregon. Conducted two Phase I ESAs on residential properties for the tribe to be brought into Tribal Trust. Reports were submitted to the Bureau of Indian Affairs (BIA), under strict requirements from the BIA.

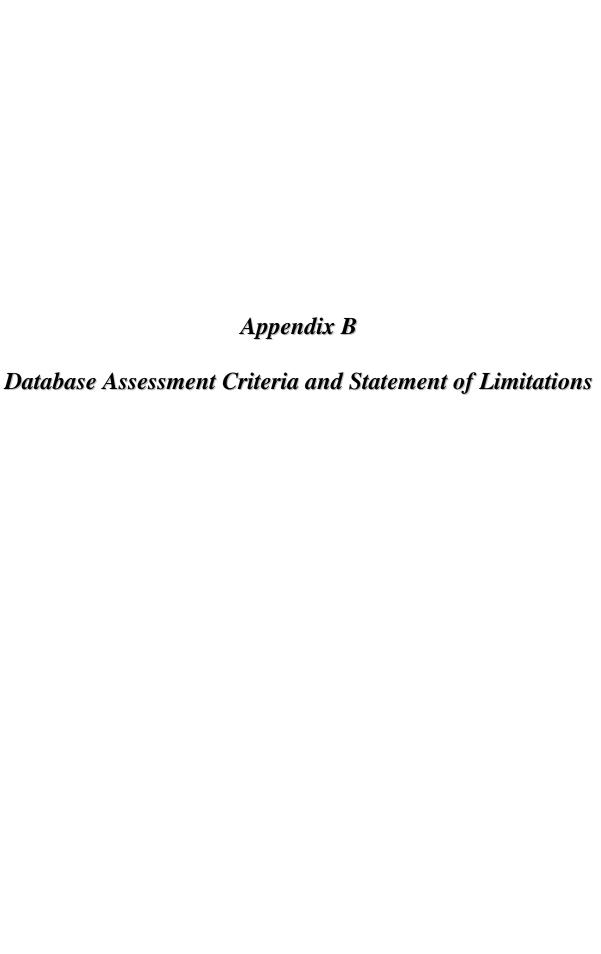
• The Holland, Inc – Burgerville, USA Phase I and Phase II ESA; Washington. Conducted Phase I ESA on three blocks of downtown Vancouver, WA; resulting in the discovery of three underground storage tanks from previous Property operations by means of site reconnaissance and historical research. Conducted Phase II ESA including locating historical tanks, oversight of petroleum removal from tanks, and sampling of surrounding soils.

#### • CEMEX, USA; Engineer – Spill Prevention, Control and Countermeasure (SPCC) Plans; Oregon and Washington

Prepared SPCC plans for multiple sites in Oregon and Washington for CEMEX, including aggregate mining sites and an asphalt manufacturing sites. Also prepared a Stormwater Pollution Control Plan (SWPCP) 1200-A permit for the mining site and a Water Pollution Control Facilities (WPCF) Permit for the liquid asphalt site.

- Cessna Aircraft Company; Engineer –
   Stormwater Pollution Control Plan (SWPCP);
   Bend, OR. Prepared SWPCP plan and 1200-Z
   permit for aircraft manufacturing company, as
   well as trained staff on stormwater pollution
   control.
- Allied Waste Spill Prevention, Control and Countermeasure (SPCC) Plans; Oregon.
   Prepared multiple SPCC plans for Oregon sites, including vehicle and equipment maintenance sites.
- Schnitzer Steel Industries Spill Prevention, Control, and Countermeasure (SPCC) Plan; Oregon. Prepared SPCC plan for main scrap metal collection, processing, and shipping terminal on the Columbia River. Also conducted training for all Schnitzer management staff
- Multiple Landfills Data Management and Monitoring Reports; Oregon and Washington. Manage and coordinate sampling events for groundwater, stormwater, surface water and leachate; manage quarterly and semiannual data; prepare Discharge Monitoring Reports for Stormwater Permits and Quarterly and Annual Environmental Monitoring Reports for groundwater, stormwater, surface water, and

leachate for submittal to Oregon Department of Environmental Quality and Washington Department of Ecology; assist with completing Annual Air Emissions Reports for submittal to Southwest Clean Air Agency (state of WA).



## Regulatory Database Assessment Criteria

The purpose of the regulatory agency environmental database review was to identify reported environmental issues for the Property and other properties in the vicinity. The database search criteria included the approximate minimum search distances specified in the Scope of Work described in Section 2.0. The descriptions of the databases searched and the associated search distances from the Property are identified in the regulatory agency database search report presented in Appendix D.

The database search report lists a number of sites identified as "unmappable." The database search firm was unable to confirm the physical locations of these sites relative to the Property or to assess whether they were located within the designated search radii. Shaw Environmental, Inc. (Shaw) independently reviewed the locations of these "unmappable" sites, to the extent possible, using various maps and our knowledge of the Property area. Any of the "unmappable" sites determined to be within the designated search radii were included in our evaluation of the various listed sites potential to result in a recognized environmental condition relative to the Property.

Shaw evaluated each reported site identified in the regulatory agency database search report with respect to the nature and extent of the release, the distance of the site from the Property, the stratigraphy of soils, the expected soil permeability, and the topographic position of a reported release site with respect to known or expected local and/or regional groundwater flow direction. Reported release sites located within ¼-mile upgradient or ¼-mile cross-gradient or adjacent downgradient are considered to have a potential to have impacted the Property and were further assessed by reviewing agency records and/or interviewing agency personnel.

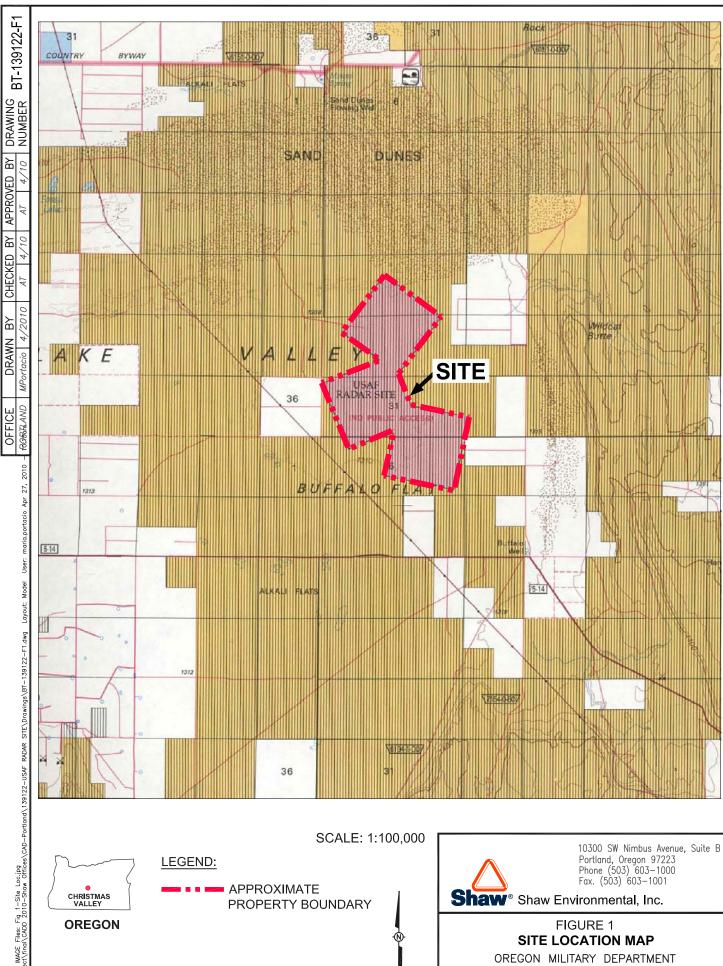
#### Statement of Limitations

The conclusions presented in this report are professional opinions based on data described in this report. These opinions have been arrived at in accordance with currently accepted environmental industry standards and practices applicable to the work described in this report. The opinions presented are subject to the following inherent limitations:

- 1. This report was prepared for the exclusive use of the entity referenced in Section 1.0, the User. No other entity may rely on the information presented in the report without the expressed written consent of Shaw. Any use of the Phase I EBS report constitutes acceptance of the limits of Shaw's liability. Shaw's liability extends only to its client and not to any other parties who may obtain the Phase I EBS report.
- 2. Shaw derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with individuals having information about the Property. The passage of time, manifestation of latent conditions, or occurrence of future events may require further study at the Property; analysis of the data; and reevaluation of the findings, observations, and conclusions in the report.
- 3. The data reported and the findings, observations, and conclusions expressed in the report are limited by the scope of work that were performed within the approved time and budgetary requirements. The scope of work is presented in Section 2.0 and was agreed to by the client.
- 4. Shaw's Phase I EBS report presents professional opinions and findings of a scientific and technical nature. The report shall not be construed to offer legal opinion or representations as to the requirements of, or compliance with, environmental laws, rules, regulations, or policies of federal, state, or local governmental agencies.
- 5. This report is not a definitive study of contamination at the Property and should not be interpreted as such. Unless indicated to the contrary in Section 2.0, an intrusive assessment of subsurface soil, groundwater, or other environmental media was not performed as part of this investigation,
- 6. This report is based, in part, on unverified information supplied to Shaw by third-party sources. While efforts have been made to substantiate this third-party information, Shaw cannot guarantee its completeness or accuracy.

Appendix C

Figures



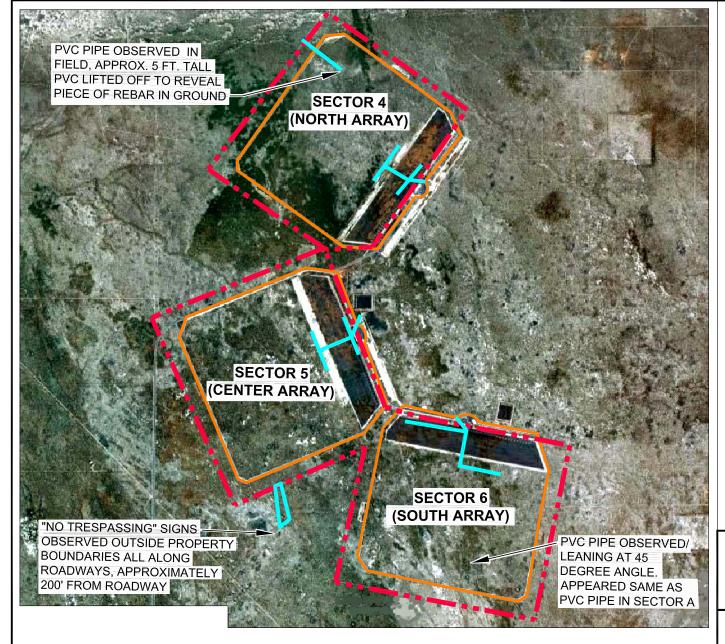
XREF File:

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, CHRISTMAS VALLEY, OREGON, 2001

OREGON MILITARY DEPARTMENT
OVER—THE—HORIZON BACKSCATTER RADAR SITE
CHRISTMAS VALLEY LAKE COUNTY, OREGON 97641

XREF Files: IMAGE Files: Fig 2- Aerial Photo.jpg
FiRIFNAProject\final\CADD 2010-Shaw Offices\CAD-Portland\139122-USAF RADAR SITE\Drawings\BT-139122-F2.dwg Loyout: Model User: maria.portacio Apr 27, 2010 - 3:18pm

OFFICE DRAWN BY CHECKED BY APPROVED BY DRAWING BT-139122-F2





ROCK COVERED WITH 6"
WIRE MESH FROM OTH-B
RADAR ARRAY.
REMAINING RADAR TOWER
FOOTINGS OBSERVED
ALONG EASTERN EDGE
("TOP") OF ROCK AREAS
ON EACH ARRAY

FENCING

APPROXIMATE AREAS TRAVERSED ON FOOT

APPROXIMATE PROPERTY BOUNDARY (SITE ACCESS ROADS LIE ALONG PROPERTY BOUNDARIES)



10300 SW Nimbus Avenue, Suite B Portland, Oregon 97223 Phone (503) 603-1000 Fax. (503) 603-1001

Shaw® Shaw Environmental, Inc.

#### FIGURE 2 SITE PLAN

OREGON MILITARY DEPARTMENT
OVER—THE HORIZON BACKSCATTER RADAR SITE
CHRISTMAS VALLEY
LAKE COUNTY, OREGON 97641

#### REFERENCE:

IMAGE ACQUIRED FROM 'GOOGLE EARTH'

NOT TO SCALE

2010

**#107** 40.00 SEE MAP 40.00 400 4000 AC 24 26S 20E 20 40.00 42.90 40.00 **40 00** SEE MAP 40.00 26S 20E 29 1903 1000 A0 32 40.00 1000 4D.00 1 40 00 2000 50.00 AE 40.00 40.00 40.00 2100 8000AC 15 40.00 40.00 329.39 AC 32 2200 80-00 AD 22 21 40.00 230U T.26S R.20E. W.M. 40.00 Lake County 35 86 2 מקמכ 35.70 10.18 ; 45 Miles. Marc ALCONO. APPS AC 42 DO 17 40.00 T.27S R.20E. W.M. 40.00 12 43.00 Lake County 18.33 40.00 4000 R . 40.00 40.00 22 501 40 95 AC 900 2000 AC 500 40 00 AC 000 2 4000 +0.00 41.00 40,00 600 43 50 4C 40.00 4000 4100 18 900 79.09 AC 700 TR09 AC 33.00 42.00 40.00 40.00 40 DG Ä 20.20 32 40.00 40.00 41.00 41.00 COUNTY 8788AC 3800 vc 20.33 42,00 40.00 4000 40.00 3385 25000 41.00 AC 40.00 18 33000 AC 3600 330 00 AC 20.74 40.00 3101 48.00 AC 20.00

#### LEGEND:

APPROXIMATE PROPERTY BOUNDARY

ECOP CATEGORY 1

AREAS WHERE NO RELEASE OR DISPOSAL OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURED (AND NO MIGRATION OF THESE SUBSTANCES FROM ADJACENT AREAS.)

NOT TO SCALE



10300 SW Nimbus Avenue, Suite B Portland, Oregon 97223 Phone (503) 603-1000 Fax. (503) 603-1001

Shaw® Shaw Environmental, Inc.

#### FIGURE 3

#### **ENVIRONMENTAL CONDITION OF THE PROPERTY**

OREGON MILITARY DEPARTMENT OVER-THE HORIZON BACKSCATTER RADAR SITE CHRISTMAS VALLEY LAKE COUNTY, OREGON 97641

XREF Files: IMAGE Files: FIG 3 SP.jpg File: N.\Proiect\final\CADD 2010-Shaw Offices\CAD-Port Appendix D

Photographs



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

**Prepared by:** Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





**Description**: Road leading to Property, view from

Co Hwy 5-14



**Description**: Sign at Sector 4 gate entrance, located

SSW

on adjacent 300 acre property



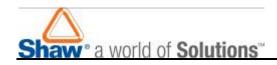
Photo No: 3 Direction: W

**Description**: View of north array (Sector 4) from eastern border of Property



**Photo No:** 4 **Direction:** N

**Description**: View of north array (Sector 4) from eastern border of Property



**Client:** Oregon Military Department

**Location:** Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

**Prepared by:** Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





Photo No: 5 **Direction**: NE

**Description**: View along eastern portion of north array (Sector 4), pilings observed to the right,

perimeter fence observed to the left.

Photo No: 6 **Direction**: N

**Description**: pilings observed in north array.





Photo No: 7

**Direction**: W Photo No: 8

**Direction**:

WNW

**Description**: pilings observed in north array.

**Description**: rock and wire mesh covering for ground screen, north array



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

**Prepared by:** Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





Photo No: 9 Direction: W

**Description**: view of wire mesh atop rock in ground screen, north array.

**Photo No**: 10 **Direction**: ESE

**Description**: view of building in Sector 4 from edge of ground screen, approximate center of north array.





Photo No: 11

Direction: 1

Photo No: 12

**Direction**: SW

**Description**: view of north array from edge of ground screen

ground screen

**Description**: view of north array from edge of



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

Prepared by: Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





**Description**: view of north array from perimeter road at northeastern corner of Property.



**Direction**: NW

Photo No: 14

**Description**: View along northern Property

boundary



Photo No: 15 Direction: SW

**Description**: no trespassing sign posted to north array perimeter fence. View from approximate center of northern array boundary



Photo No: 16

**Description**: View of Property from northernmost corner, also corner of northern array (Sector 4).

**Direction**:

S



**Client:** Oregon Military Department

**Location:** Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

Prepared by: Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





Photo No: 17 **Direction**:

**Description**: pvc pipe observed at northern corner of north array (Sector 4). Pipe lifted off to reveal rebar sticking up out of ground.

Photo No: 18 **ENE Direction**: **Description**: View of northern array (Sector 4) from westernmost corner on perimeter road.





Photo No: 19

NE **Direction**:

Photo No: 20

**Direction**: **ESE** 

**Description**: no trespassing sign at Property boundary - truck is on perimeter road (background left)

**Description**: view along Property boundary from sign in Photo No. 19.



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

Prepared by: Shaw Environmental, Inc. Photographer: Audrey Turpening

**Project No:** 139122





Photo No: 21 **Direction**:

**Description**: water supply observed at corner of center array (Sector 5). Not located on Property. Photo No: 22 **Direction**: NNW

**Description**: view of Property boundary in center array (Sector 5). Building to right not on Property.





Photo No: 23

**Direction**: WSW

W

Photo No: 24

**Direction**: SSE

**Description**: View of center array (Sector 5) from eastern edge of Property.

**Description**: view along eastern border of center array.



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

**Prepared by:** Shaw Environmental, Inc. **Photographer**: Audrey Turpening

**Project No:** 139122





Photo No: 25

**Direction**: NNW

Photo No: 26 Direction:

**Description**: view along eastern border of center

array.

**Description**: View from western edge of ground

screen





Photo No: 27

**Direction**: E

Photo No: 28

**Direction**: SE

**Description**: view of building at center array from

edge of ground screen

**Description**: perimeter fence at northwest corner of center array.



**Client:** Oregon Military Department

Location: Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

Prepared by: Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





Photo No: 29

**Direction**:

Photo No: 30

**Direction**: S

**Description**: perimeter road at southwest corner of

center array

**Description**: perimeter road at southwest corner of

center array





Photo No: 31

**Direction**: NNW

Photo No: 32

**Direction**: E

**Description**: view of center array from southern

edge of perimeter.

**Description**: perimeter road along southern edge of

center array



**Client:** Oregon Military Department

**Location:** Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

Prepared by: Shaw Environmental, Inc.

Photographer: Audrey Turpening

**Project No:** 139122





**Photo No:** 33 **Direction:** N

Photo No: 34

Direction: N

**Description**: example of low area where stormwater collects and infiltrates into the soils. Located along western edge of southern array (Sector 6).

**Description**: example of low area where stormwater collects and infiltrates into soils. Located along western edge of southern array (Sector 6).





Photo No: 35

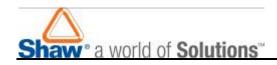
**Direction**: N

Photo No: 36

**Direction**: E

**Description**: perimeter fence at southern edge of Property, south side of southern array (Sector 6)

**Description**: view along southernmost perimeter road.



**Client:** Oregon Military Department

**Location:** Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

**Photograph Date:** April 14, 2010

**Prepared by:** Shaw Environmental, Inc. **Photographer**: Audrey Turpening

**Project No:** 139122





Photo No: 37

**Direction**: E

Photo No: 38

**Direction**: W

**Description**: view of southern array (Sector 6) from approx. center on northern border of southern array.

**Description**: view along northern border of southern array, standing at northern edge of ground screen.





Photo No: 39

Direction: 1

Photo No: 40

**Direction**: N

**Description**: view of building at southern array (Sector 6) from edge of ground screen.

**Description**: herbicide holding container observed in property adjacent to northern array (Sector 4), near northeast corner of property.



Client: Oregon Military Department

**Location:** Over-The-Horizon Backscatter Radar Array

Christmas Valley, Oregon

Photograph Date: April 14, 2010

**Prepared by:** Shaw Environmental, Inc. **Photographer**: Audrey Turpening

**Project No:** 139122





Photo No: 41 Direction: E

**Description**: electrical substation for Sector 6. Sectors 4 and 5 have same type of substation. Stations are not located on Property, but adjacent to

eastern side, east of buildings.

Photo No: 42 Direction: ESE

Description: View of generator vent pipe at

building in Sector 6. Building lies adjacent to Property. Each Sector has identical generators and

vent pipes.



Photo No: 43 Direction:

**Description**: View of area where underground storage tank (UST) was removed in Sector 6. UST connected to generator showin in Photo No. 42. Sectors 4 & 5 had equivalent USTs, all removed at same time.

## Appendix E

Photocopies of Additional Supporting Materials

## Reference Documents Provided by Oregon Military Department

- 1. Final Environmental Assessment for Equipment Removal at Over-The-Horizon Backscatter Radar West Coast Facilities, U.S. Air Force Air Combat Command, July 2005.
- 2. Environmental Baseline Survey for Over-the-Horizon Backscatter (OTH-B) Site at Christmas Valley, Oregon, Final, United States Air Force Air Combat Command, October 2006.



# Theodore R. Kulongoski Governor April 30, 2007

The Honorable Ken Kestner
The Honorable Dan Shoun
The Honorable Brad Winters
Lake County Board of Commissioners
Lake County Courthouse
513 Center St.
Lakeview, OR 97630

Dear Commissioners Kestner, Shoun and Winters:

Thank you for your letter requesting designation for the Christmas Valley Backscatter Site Multiple-Use Project. By this letter I am designating this project as an Oregon Solutions project and appoint Commission Chair Winters and Lake County Resources Initiative Director Jim Walls as project coconveners.

The Christmas Valley Backscatter Site Multiple-Use Project has the potential to meet many of the State's environmental, economic and social objectives. In addition to the potential use of the site by the Oregon National Guard and Air National Guard, the project could also play a significant role in meeting the Oregon Renewable Energy Action Plan (REAP). One goal of REAP is for Oregon to meet a large fraction of its energy needs with renewable energy by 2025. The Christmas Valley Backscatter Site Multiple-Use Project will help us in meeting these needs while supporting rural economic development objectives.

The investment of USDA Rural Development funds to Oregon Solutions will benefit our state while elevating the project to attract national attention. The Oregon Solutions staff will help you bring effective partners to the table to integrate resources for an integrated implementation strategy, and to sign a "Declaration of Cooperation" for the project. I look forward to hearing about your progress.

Sincerely

THEODORE R. KULONGOSK

Governor

TRK:rn:jc

Ray Naff, Governor's Economic Revitalization Team
David Van't Hof, Governor's Sustainability Advisor
Janet Brown, Governor's Economic Revitalization Team Coordinator
Greg Wolf, Oregon Solutions

## Congress of the United States

Washington, DC 20510

September 21, 2007

The Honorable Michael W. Wynne Secretary of the Air Force 1670 Air Force, Pentagon Washington, DC 20330-1670

Dear Secretary Wynne,

We are writing to express our interest and support for developing the Christmas Valley, Oregon back-scatter radar site into a military training and renewable energy mixuse development. It is our understanding that you will soon meet with Major General Raymond F. Rees of the Oregon National Guard to discuss the future of Christmas Valley, and we wish to express our support for his proposal.

The back-scatter radar site near Christmas Valley has been withdrawn for use by the Air Force, Air Combat Command, and is currently scheduled to be returned to the Bureau of Land Management in September of 2009. It is our understanding that this site could be used by the military in several ways, including F-15 air-to-air combat training or as a Joint Desert Training Area. Additionally, there is a significant opportunity to develop a renewable energy site akin to the recently developed site at Nellis Air Force Base.

As members of Oregon's congressional delegation, we applaud the Department of Defense's recent efforts to conserve energy and move toward the use of new renewable technologies. The Christmas Valley locale is ideally situated for a renewable energy production site, and would demonstrate again the Department of Defense's ability to adapt and innovate.

We look forward to working closely with you on developing future plans for the Christmas Valley back-scatter radar site, and thank you in advance for your thorough review and consideration of this proposal.

Sincerely,

Gordon H. Smith United States Senate

Greg Walden

Member of Congress

Ron Wyden

United States Senate

David Wu

Member of Congress

			5-10-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				
REQUEST FOR TRANSFER OF EXCESS REAL AND RELATED PERSONAL PROPERTY			1. GSA CONTROL NO. # 9-	D-OR-0768	PAGE 1		IS BLOCK FOR USE BY ICY RECEIVING RECEST
			2. DATE OF REQUEST	-1.44.0000	OF	DATE R	EQUEST RECEIVED
			Augi	ıst 11, 2008	1 PAGES	İ	
requested to transfer the property)			4. FROM (Name, address and ZIP Code of agence requesting transfer of the property)		псу	HOLDIN	IG AGENCY NO. (If any)
Attn: Blaine	•					ACQUIS	ITION COST
GSA Proper	ty Disposal Off	ice (9 PRF-10)	Joint Forces I		\$		
	ıl Services Adn		Oregon Natio		APPRAIS	SED FAIR MARKET VALUE	
400 - 15th S	treet, SW, Roo	m 1161	1776 Militia W	/ay		BEIMBU	RSEMENT
Auburn, WA			Salem, OR 9			\$	, io Living
	Y'S REPRESENTATIVE 1 RTHER INFORMATION (I		6. PROPERTY IDENTIFIC	CATION AND ADDRES	S (Include ZIP (	Code)	
ZIP Code) LTC	Christian F. Re	es	Over the Hori	zon Backscat	ter (OTH-	B) Ra	adar Site
1776	Militia Way		94481 Christr	nas Valley Hi	ghway		
Salem, OR 97309-5047			Christmas Valley, OR 97641				
		REA	L PROPERTY REQU	JESTED			
	A. STRUCTURES		B. LAND			C. UTILITIES	
USE (a)	NUMBER OF BUILDINGS (b)	FLOOR AREA (Sq. Ft.) (C)	GOVERNMENT'S INTEREST (a)	AREA (Acres of Sq. Ft.) (b)			
(1) OFFICE	3	44,946	(1) FEE	2,622 ad	5		
(2) STORAGE	1	900	(2) LEASED				
(3) OTHER (Specify)			(3) OTHER (Specify)	•			
			Access ROW	34 ac			
(4) TOTAL	4	45,846	(4) TOTAL	2656 ac			
8. RELATED PERSONAL	PROPERTY REQUESTED	)					ABLE FOR REIMBURSE- ANSFER OF THIS PROP-
						YES	NO
10. CERTIFICATION	NC						
Certification is hereby made that this agency has a need for the property identified above to carry on an approved program. that the transfer thereof to this agency for the purposes indicated would be in accord with the intent of the Congress with respect to that program; that the requirement cannot be satisfied by better use of this agency's existing property; and that the proposed land use is consistent with FPMR 101-47.201-1 and 201-2. The statement of justification under block11 below for the transfer of the property requested is complete and accurate.							

SIGNATURE		TITLE	DATE
(		Deputy,	11 01 10
	150	United States Property and Fiscal Officer	11AUG 08

11. STATEMENT OF JUSTIFICATION (This statement must include data with respect to all factors covered in FPMR 101-47.4904-1(c) Block 11, instructions for Preparation of GSA Form 18).

The OTH-B site sits directly beneath Oregon's primary high and low altitude Special Use Airspace (SUA). This SUA is used by the Air National Guard and emergency response teams to train pilots and support real time missions such as fire suppression and search & rescue. The site is in a very remote desert region that provides accessibility to the airspace from the ground and to diverse terrain that benefits the mission set.

This site provides ideal land beneath the SUA to conduct joint Army and Air Force ground support training in conjunction with the air maneuver and war fighting training exercises. This enables ground units to develop desert survival skills, conduct small unit tactics, train land navigation skills, develop site defenses, conduct austere weather forecasting, and hone other battlefield skills. Additionally, the Air Control Squadron would be able to provide Air Battle Management and exercise essential communication skills with ground support units.

The Oregon Military Department, in coordination with state law enforcement agencies, Fire Marshals and the Department of Forestry, have established partnerships with many federal agencies to coordinate functions on wildfires and other hazard incidences. This site will give the Federal and State governmental agencies the opportunity to train in diverse environments/terrain in a central remote location; ensure the security and public welfare of our local communities, state, and nation; and will provide the tools and location for first responders to train for any disasters in the region.

(If required, use an additional 8 1/2 x 11



July 28, 2009

Mr. Kenneth D. Murphy, Director Oregon Emergency Management 3225 State Street P.O. Box 14370 Salem, OR 75418

Dear Mr. Murphy:

The Federal Emergency Management Agency (FEMA) has received, reviewed and approved the application submitted by the State of Oregon, Oregon Emergency Management, through the Oregon Military Department, in Salem, OR. We understand the property requested is surplus to the needs of the United States Government and forward the application for appropriate action pursuant to 41 CFR Section 102.75.795 and 40 U.S.C. Section 551.

The property will be used by the Oregon Emergency Management to implement the Office of Emergency Management training and a Community Point of Distribution site. This project will utilize the land and included buildings as a training staging area for emergency response training and a supply pre-position site to meet the needs of Oregon jurisdictions and in support of the FEMA GAP analysis program.

We conclude that the application submitted by the Oregon Emergency Management sets forth a legitimate emergency management response use for this surplus property. We also assess the environmental impact of the identified use as minimal, if any.

We recommend insertion of the following clause into the transfer instrument when GSA has certified that the application sets forth a legitimate emergency response use:

Grantee understands that the Property is being transferred pursuant to 40 U.S.C. Section 553 for emergency management response use and agrees that the Property will be used and maintained as an emergency management response facility in perpetuity, and that in event the Property ceases to be used or maintained as an emergency management response facility, all or any portion of the Property shall, in its then existing condition, at the option of the Grantor revert to the Grantor.

FEMA has determined the Oregon Emergency Management to be an approved applicant for receiving Federal surplus property, and has agreed that it will not discriminate upon the basis of race, color, national origin, sex, age, disability or religion, in the use, occupancy or lease of the property for the period during which the real property is used for the purpose under which the Federal financial assistance is extended.

In addition, we request that periodic updates be submitted to enable us to maintain a current record regarding the status of this property.

If you desire additional information in support of the application, please contact Linda Wurtzberger at 202-646-2637.

Sincerely,

Sydney Fooks

Chief, Real Property Branch

Support Services and Facilities Management Division

cc: FEMA Region X 130 228<sup>th</sup> Street, SW Bothell, WA 98201-8627

cc: General Services Administration Office of Property Disposal (9PRF-10) 400 15<sup>th</sup> Street, SW, Room 1161 Auburn, WA 98001 Attention: Mr. Blaine Hastings



### OREGON MILITARY DEPARTMENT

JOINT FORCE HEADQUARTERS, OREGON NATIONAL GUARD OFFICE OF THE ADJUTANT GENERAL 1776 MILITIA WAY P.O. BOX 14350 SALEM, OREGON 97309-5047

April 28, 2009

Sylvia Sutton
U.S. Homeland Security
Bureau of Justice Assistance
300 D Street, SW Room 842
Washington, DC 20024-4709

Subject: Addendum to Expression of Interest for Christmas Valley Surplus Property, Klamath alls, Oregon

Dear Mrs. Sutton,

On February 9, 2009, Oregon Emergency Management (OEM), through the Oregon Military Department, submitted an Expression of Interest letter regarding the January 22, 2009, General Services Administration (GSA) posting of a Notice of Surplus Determination for this property under GSA Control Number 9-D-OR-0768, for the Over the Horizon Radar Transmitter Site (OTH-R) at Christmas Valley, Oregon.

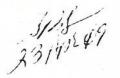
OEM wishes to make clear through this addendum that it is funded primarily through appropriations by the State of Oregon, along with funding provided by the Federal Government, through the Federal Emergency Management Agency. Utilizing these sources of funding OEM will have adequate resources to maintain a safe environment in accordance with all applicable laws and regulations including OSHA.

For additional information regarding this action please contact CPT Russell Gibson, Construction and Facility Management Officer at (503) 584-3545.

Raymond F. Rees

Major General

The Adjutant General



### **OREGON MILITARY DEPARTMENT**

CREGON EMERGENCY MANAGEMENT 3225 State Street P.O. BOX 14370 SALEM, OREGON 97309-5062

OEM

19 March 2009

Sylvia Sutton
U.S. Homeland Security
Bureau of Justice Assistance
300 D Street, SW Room 835
Washington, DC 20472

SUBJECT: Excess Federal Real Property Application for Public Benefit Conveyance Proposal

1. The State of Oregon, through the Oregon Military Department (OMD) proposes to acquire 405 acres, along with the improvements and 34 acres of access road of the Over the Horizon Radar Transmitter Site (OTH-R) at Christmas Valley, Oregon. OMD desires and intent is to use the property for incident and Emergency Management teams to coordinate through the Office of Oregon Emergency Management (OEM), and respond to local, state, and national disasters. The OEM office is a division of the OMD which is supervised by The Adjutant General. The OMD's objective is to be the most highly trained professionals when responding to any and ALL hazards. The State of Oregon, National Guard, through the State Fire Marshals office and the Oregon Department of Forestry have established relationships with many federal agency partners to function as one entity on wild land or other hazard incidents. They have learned to manage large numbers of personnel, equipment, and resources in a training environment, thru exercises, and in real world situations. This site sits directly below Oregon's primary high and low altitude, over-land Special Use Airspace (SUA). This SUA is available for use by emergency response teams to train and support real time mission such as fires or search and rescue. The site is in a very remote desert region that provides accessibility to the airspace from the ground and to diverse terrain that benefits the mission set. It is the only site in the State of Oregon that is available, developed, with easy access and local support established that would meet the joint mission needs.

The Oregon National Guard provides security, emergency management / preparedness, response, recovery and public welfare for the State of Oregon and the Nation. The Oregon National Guard responds in times of natural and manmade disasters, not inclusive, but including: flood, earthquake, snow removal, fire suppression, police, and search/rescue response missions. The site will be used to develop a radio/emitter relay site for overhead aircraft to coordinate with ground or airborne local, state, and federal agencies during training or actual responses to events. The radio site will connect over half of Eastern Oregon, which currently has no

communication capability in this region at low altitudes. Furthermore, the site will include a training facility and relay location for local, state, and federal emergency response agencies.

This site will give the Oregon National Guard and multiple emergency response agencies the opportunity to train in diverse environments and terrain in a central remote location; ensure the security and public welfare of the local communities, state, and nation; and will provide the tools and location for first responders to any disasters in the region. Additionally, Oregon would use this as a major preposition site of state disaster supplies and also a point of distribution site to meet the needs of Oregon jurisdictions and in support of the Federal Emergency Management Agency GAP analysis program.

- 2. On January 22, 2009, General Services Administration (GSA) posted a Notice of Surplus Determination for this property under GSA Control Number 9-D-OR-0768.
- 3. ONG intents to acquire this property under the authority of the Emergency Management Response (fire and rescue) 40 U.S.C 553.
- 4. For additional information regarding this action please call Russell Gibson, Construction and Facility Management Officer at (503) 584-3545.

Kenneth D. Murphy

Director

Oregon Emergency Management

CC:

Blaine Hastings, Manager Real Property Disposal (9PRF-10) General Service Administration 400 15<sup>th</sup> Street S.W. Auburn, WA 98001-6599

### DEPARTMENT OF HOMELAND SECURITY

FEDERAL EMERGENCY MANAGEMENT AGENCY

### EXCESS FEDERAL REAL PROPERTY APPLICATION FOR PUBLIC BENEFIT CONVEYANCES

O.M.B. NO. 1660-0080 Expires June 31, 2010

### PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to avearage 3 hours per response. The burden estimate includes the time for reviewing instructions and searching existing data sources, gathering and maintaining the data needed and completing and submitting the form. You are not required to respond to this collection of infromation unless a valid CMB control number appears i the upper right corner on this form. Send commnets regarding the accuracy of the burden estimate and any suggestions for reducing the burden to: Informations Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC, 20472, Paperwork Reduction Project (1660-0080). NOTE: Send completed form to: Federal Emergency Management Agency, Facility, Policy and Oversight Branch, 500 C Street SW, Washington DC 20472.

	SECTION I - APP	LICANT/RECIPIENT DATA		
1. APPLICANT'S NAME State of Oregon		CRGANIZATION     Oregon Emergency Management	ent, Oregon Military Department	
3. ADDRESS         4. CITY           1776 Militia Way SE         Salem		5. COUNTY Marion	6. STATE	7. ZIP CODE 97309
CCNGRESSIONAL DISTRICT(S)  Second District		9. NAME OF CONTACT  CPT Russell W. Gibson		
10. TELEPHONE NUMBER FAX NUMBER 503-584-3545 503-584-3584		11. E-MAIL ADDRESS russell.w.gibson@us.army.mil		
1. PROPERTY IDENTIFICATION (Nam	A STATE OF THE STA	- TYPE OF ACTION  2. GSA NUMBER (If applicable)	Tolerance .	
Christmas Valley Over the Horizon Backscatter Radar Site, North Lake County, 94481.		Control No. 9-D-OR-0768		
DATE APPLICANT ADVISED GSA OR BRAC OFFICE OF INTERST (Please provide copies of letters)		BASE REALIGNMENT IDENTIFICATION (If applicable)  N/A		
9 February 2009		TITLE OF APPLICANT'S PROJECT     OEM Training and CPOD Site		

- 6. Provide a brief description of applicant's project (please provide detailed information referencing your emergency management response use of the property):
  - a. Describe the emergency managment response organization to benefit from the conveyance.

The Oregon Emergency Management (OEM) office is responsible for coordinating and facilitating emergency planning, preparedness, response and recovery activities with the state and local emergency services agencies and organizations

b. Decsribe the emergency management response program/project activities (e.g., training).

OEM will utilize this land and the included buildings and as a training area and training staging area for emergency response training and to develop a Community Point of Distribution (CPOD) site and supply pre-position site to meet the needs of Oregon jurisdictions and in support of the Federal Emergency Management Agency GAP analysis program

c. Provide a table for accomplisheing renmovation/construction and implementing the program after property is certified or conveyed, and deeded.

Buildings and land are currently suitable for pre-positioning emergency supplies and as a staging area for emergency response and wildland fire traininng.

d. Recommend language that could be included in the property conveyance document establishing conditions for the prepetual use of the property for the emergency management response facility.

The United States Government herby conveys the property commonly known as the Over the Horizon Backscatter (OTH-B) Radar Site, 4481 Christmas Valley Highway, Christmas Valley, Cregon, GSA Control Number 9-D-OR-0768, to the State of Cregon, for the training and storage of emergency management, emergency response, law enforcement and/or fire personnel and equipment. If the State of Cregon should cease using said property for such purposes, said property shall, at the option of the Government, revert to the Government.

#### SECTION II - ACQUISITION AUTHROITY

1. dentify the State and local government agency that is authorized by law to enter into contracts with the Federal Government for the conveyance of real property. (Please provide a copy of the State enabling legislation and cite the actual paragraph or portion of the legislation that establishes that authority).

The Oregon Military Department is authorized to enter into contracts with the Federal Government in accordance with Oregon Revised Statutes Title 32, Chapter 396,510 and 396,535.

See attached Cregon Revised Statutes

2. If the above-authorized agency is not the applicant agency, provide written delegation from the authorized agency to procure the requested property.

NA

### 3. Include a proposal.

The structures and land at this site will be used to develop a radio/emitter relay site for overhead aircraft to coordinate with ground or airborne local, state, and federal agencies during training or actual responses to events. The radio site will connect over half of Eastern Oregon, which currently has no communication capability in this region at low altitudes. Furthermore, the site will include a training facility and relay location for local, state, and federal emergency response agencies.

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For more information, see attached memorandum.

### SECTION III - ENVIRONMENTAL ISSUES

The applicant proposes continued use of the existing facility in ways similar to its previous use. Based upon FEMA exoperience in the implementation of similar measures, the environmential imaport of the identified use would be none to minimal. The applicant's description of the proposed use does not indicate and special issues that would suggest a different level of impact in this case. The applicant and and agency funding, issuing permits, or enacting the property transfer or project implementation should consider additional information as appropriate to comply with revelent State and Federal environmental laws and executive orders. This compliance would also apply if and when a day care center is aded to the facility.

#### SECTION IV - CERTIFICATION

I certify that to the best of my knowledge and belief, that the data in this application is true and correct, that the governing body of the applicant has duly authorized the application, that the applicant proposes continued use of the facility in ways similar to its previous use, that the proposed use does not indicate any special environmental concerns, and that the property transfer or project implementation will comply with all relevant State and Federal environmental laws and executive orders.

SIGNATURE OF CERTIFY OF REPRESENTATIVE

TYPED NAME AND TITLE

CATE

Kenneth D. Wurphy, Director, Cregon Emergency Management

19 March 2009

Nit Allo

### DEPARTMENT OF HOMELAND SECURITY FEDERAL EMERGENCY MANAGEMENT AGENCY

### EXCESS FEDERAL REAL PROPERTY APPLICATION FOR PUBLIC BENEFIT CONVEYANCES

O.M.B. NO. 1660-0080 Expires June 31, 2010

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3. ADDRESS . 4. CITY 1776 Militia Way SE . Salem		5. COUNTY Marion	6. STATE CR	7. ZIP CODE 97309	
8. CONGRESSICNAL DISTRICT(S) Second District  10. TELEPHONE NUMBER FAX NUMBER 503-584-3545 503-584-3584		9. NAME OF CONTACT . CPT Russell W. Gibson			
		11. E-MAIL ADDRESS russell.w.gibson@us.army.mil			
		SECTION II	- TYPE OF ACTION		
PROPERTY IDENTIFICATION (Name if, applicable)  Christmas Valley Over the Horizon Backscatter Radar Site, North Lake County, 94481.		2. GSA NUMBER (If applicable)  Contro	ol No. 9-D-OR-076	88	
4. DATE APPLICANT ADVISED GSA OR BRAC OFFICE OF INTERST (Please provide		BASE REALIGNMENT IDENTIFICATION (If applicable)  N/A			
9 February 2009		5. TITLE OF APPLICANT'S PRO- OEM Training and CPOD Site	JECT		

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SIGNATURE OF CERTIFYING REPRESENTATIVE

TYPED NAME AND TITLE

DATE

Fenneth D. Murphy, Director, Oregon Emergency Management

19 March 2009

# WEST COAST OVER-THE-HORIZON BACKSCATTER RADAR SYSTEM (OREGON) (M&B) LEGAL DESCRIPTION

23APR09

### Oregon Emergency Management Site

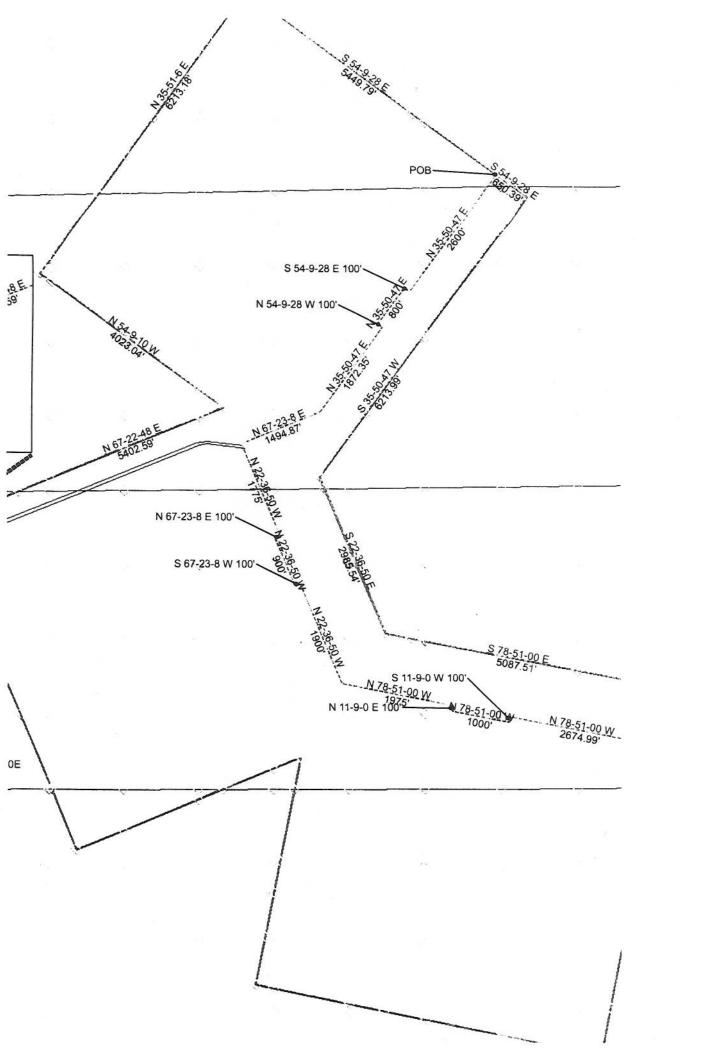
A parcel of land situated in Sections 19, 30, 31, and 32 of Township 26 South, Range 20 East, all in the Willamette Meridian, Lake County, Oregon and described as follows:

Commencing at the southwest corner of said Section 31; thence north 0°50'01" east along the west line of said Section a distance of 4,682.15 feet; thence continuing along said line north 0°50'01" east, a distance of 18.26 feet; thence north 67°22'48" east, a distance of 5,402.59 feet; thence north 54°09'10" west, a distance of 4,023.04 feet; thence north 35°51'06" east, a distance of 6,213.18 feet; thence south 54°09'28" east, a distance of 5,449.79 feet to the POINT OF BEGINNING; thence continuing along said line south 54°09'28" east, a distance of 650.39 feet; thence south 35°50'47" west, a distance of 6,213.99 feet; thence south 22°36'50" east, a distance of 2,985.54 feet; thence south 78°51'00" east, a distance of 5,087.51 feet; thence south 11°09'00" west, a distance of 1,025.00 feet; thence north 78°51'00 west, a distance of 2,674.99 feet; thence south 11°09'00" west, a distance of 100 feet; thence north 78°51'00" west, a distance of 1,000 feet; thence north 11°09'00" east, a distance of 100 feet; thence north 78°51'00" west, a distance of 1,975 feet; thence north 22°36'50" west, a distance of 1,900 feet; thence south 67°23'08" west, a distance of 100 feet; thence north 22°36'50" west, a distance of 900 feet; thence north 67°23'08" east, a distance of 100 feet; thence north 22°36'50" west, a distance of 1,775 feet; thence north 67°23'08" east, a distance of 1,494.87 feet; thence north 35°50'47" east, a distance of 1,872.35 feet; thence north 54°09'28" west, a distance of 100 feet; thence north 35°50'47" east, a distance of 800 feet; thence south 54°09'28" east, a distance of 100 feet; thence north 35°50'47" east, a distance of 2,600 feet to the POINT OF BEGINNING. Contains 326 acres, more or less.

Also a parcel of land to be used for ingress /egress situate in Sections 30 and 31 of Township 26 South, Range 20 East, all in the Willamette Meridian, Lake County, Oregon; said parcel being that portion of said property contained within a strip of land 30 feet wide, being 15 feet on each side of the following described centerline:

Beginning at a point which lies 4,152.50 feet north and 22.32 feet east of the southwest corner of Section 36; thence north 42°45'46" east, 260 feet; thence north 57°11'01" east, 282.50 feet; thence north 68°04'49" east, 4,250.00 feet; thence north 79°51'44" east, 150.00 feet; thence south 97°15'05" east, 675.00 feet, more or less.

The easement described herein contains 3.87 acres.





### Oregon Department of Environmental Quality

Oregon DEQ: Site Details Environmental Cleanup Site Information (ECSI) Database

This report shows data entered as of April 27, 2010 at 10:30:37 AM

This report contains site details, organized into the following sections: 1) Site Photos (appears only if the site has photos); 2) General Site Information; 3) Site Characteristics; 4) Substance Contamination Information; 5) Investigative, Remedial and Administrative Actions; and 6) Site Environmental Controls (i.e., institutional or engineering controls; appears only if DEQ has applied one or more such controls to the site). A key to certain acronyms and terms used in the report appears at the bottom of the page.

Go to DEQ's Facility Profiler to see a site map as well is information on what other DEQ programs may be active at this site.

#### **Site Photos**

Click to View Picture Date		Caption	Size
Photo			
View Photo	03/29/2001	ECSI#4352	452 Kb

### General Site Information

Site ID: 4352 Site Name: Christmas Valley Radar Base CERCLIS No:

Address: Wagon Tire RD & Radar Site RD (NE corner of) Christmas Valley 97638

> County: Lake Region: Eastern

Other location information:

No further action required **Investigation Status:** 

> Brownfield Site: No NPL Site: No Orphan Site: Study Area:

> > No No

Tax Lots: Property: Twnshp/Range/Sect: 26S, 20E, 30

> Latitude: Longitude: Site Size:

43.2762 deg. -120.3748 deg.

Other Site Names: Christmas Valley Backscatter Site

**Site Characteristics** 

General Site The transmitter site, located near Christmas Valley, occupies land that is Description:

managed by the Air Force and has been withdrawn from public use by the

U.S. Bureau of Land Management (BLM). A receiver station is present near

Tule Lake, California.

In addition to the radar structure, there is a transmitter building, a vehicle maintenance shop, and an electric switching station associated with the

sector 4 antenna (the northernmost sector). The

other two sectors each have a transmitter building and an electric switching

Site History: The OTH-B radar system was developed in the early 1970s to provide all-

altitude, long-range surveillance of aerial approaches to the United States. Two OTH-B radar systems were constructed, one system each on the West and East Coasts. Each system included transmitter, receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing radar waves and return signals, enabling the system to detect and track targets that would otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles. Processed data was communicated from the receiver location to the operations site for correlation with known aircraft positions. The OTH-B radar system was built by General Electric beginning in 1986. The Air Force accepted control of the system in December 1990. In 1991 just months after being put into place, the West Coast site reduced its activities to caretaker status and it has remained in the status for the past 15 years.

Contamination Information:

(3/18/05 DMC/SAS) Site added to database for tracking as a military installation that is in the process of being decommissioned; ER/SAS received a copy of an environmental assessment for the over-the-horizon backscatter radar site. UST decommissioning in progress and site is also being evaluated for potential asbestos issues by ER/Bend staff.

Manner and Time of

Release:

Hazardous

Substances/Waste

Types: Pathways:

Environmental/Health

Threats:

Status of Investigative (9/1/05 DMC/SAS) Site screening recommended.

or Remedial Action:

Data Sources:

1. Enivronmental Assessment (US military).

**Substance Contamination Information** 

Substance Media Contaminated Concentration Level Date Recorded

No information is available

Investigative, Remedial and Administrative Actions

Action Start Date Compl. Date Pgm

NO FURTHER STATE ACTION REQUIRED 08/01/2006 08/31/2006 David SAS (Primary Action) Anderson

View Full Report Showing Action History

### **Key to Certain Acronyms and Terms in this Report:**

**CERCLIS No.**: The U.S. EPA's Hazardous Waste Site identification number, shown only if EPA has been involved at the site.

**Region**: DEQ divides the state into three regions, Eastern, Northwest, and Western; the regional office shown is responsible for site investigation/cleanup.

**NPL Site**: Is this site on EPA's National Priority List (i.e., a federal Superfund site)? (Y/N). **Orphan Site**: Has DEQ's Orphan Program been active at this site? (Y/N). The Orphan Program uses state funds to clean up high-priority sites where owners and operators responsible for the contamination are absent, or are unable or unwilling to use their own resources for cleanup.

**Study Area**: Is this site a Study Area? (Y/N). Study Areas are groupings of individual ECSI sites that may be contributing to a larger, area-wide problem. ECSI assigns unique Site ID numbers to both individual sites and to Study Areas.

**Pathways**: A description of human or environmental resources that site contamination could affect.

**Lead Pgm**: This column refers to the Cleanup Program affiliation of the DEQ employee responsible for the action shown. SAS or SAP = Site Assessment; VCS or VCP = Voluntary Cleanup; ICP = Independent Cleanup; SRS or SRP = Site Response (enforcement cleanup); ORP = Orphan Program.

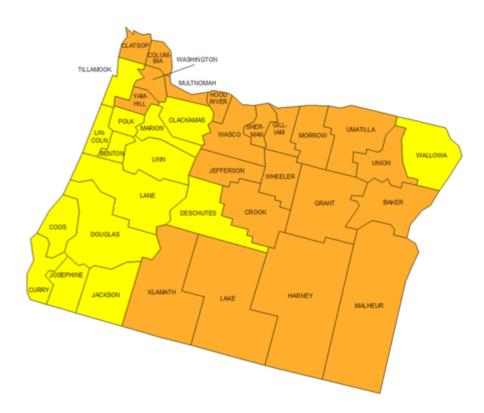
You may be able to obtain more information about this site by contacting David Anderson at the Eastern regional office or via email at anderson.david@deq.state.or.us. If this does not work, you may contact Gil Wistar at (503) 229-5512, or via email at wistar.gil@deq.state.or.us or contact the Eastern regional office.

T.26S. R.20E. W.M. 26S20E THIS MAP WAS PREPARED FOR CANCELLED: ASSESSMENT PURPOSE ONLY LAKE COUNTY & INDEX SEE MAP 25S 20E 1" = 2000'; 5TH STANDARD SOUTH PARALLEL 100 \\\^3.32 CH. | 100 100 200 300 25408.33 AC 53.84 AC 53.80 AC. 46.56 48.80 47.68 10 : 50.75 49.92 51.29 52.58 52.37 51.83 53.82 53.50 53.18 52.86 52.50 52.37 52.23 52.22 52.64 27.04 60.29 53.92 53.96 53.84 53.80 12 40.00 40.00 40.00 17.78, 40.00 40.00 40.00 5 40.00 25 40.00 40.00 17.41 40.00 40.00 40.00 40.00 , NOTE: FOR THE REMAINDER OF PARCEL NUMBERS, SEE WEST 1/2 MAP 26 20 40.00 40.00 \$89°17'00"W 80.20 CH. \$88°57'00"W 79.54 CH. 40.00 40.00 40.00 40.00 40.00 S89°37'00"W 79.64 CH. 40.00 40.00 40.00 40.00 40.00 40.00 40.00 10 40.00 40.00 12 40.00 40.00 40.00 40.00 16.81 9 10 11 20 23 40.00 40.00 40.00 40.00 40.00 16.79 40.00 27 28 26 \$88°53'00"W 79.50 CH. 40.00 40.00 40.00 40.00 40.00 S89°39'00"W 79.58 CH. 40.00 40.00 S89°47'00"W 80.02 CH. 40.00 40.00 40.00 40.00 40.00 10 40.00 40.00 40.00 13 40.00 40.00 40.00 6.40 15 17 20 22 23 40.00 40.00 40.00 40.00 40.00 40.00 25 27 28 40.00 40.00 \$88°53'00"W 79.60 CH. 40.00 40.00 40.00 40.00 40.00 2 40.00 40.00 40.00 40.00 40.00 15.92 SEE MAP 12 40.00 40.00 40.00 40.00 40.00 40.00 24 40.00 **\21** 23 22 400 40.00 AC. 23 26S 20E 20 40.00 40.00 40.00 40.00 40.00 16.40; 40.00 500 501 20.00 20.00 AC. AC. 32 30 26 <sub>i</sub> 27 40.00 40.00 40.00 S89°40'00"W 79.54 CH. 40.00 40.00 40.00 SEE MAP 7 40.00 40.00 i 40.00 /40.00/ 10.00 AC 40.00 16.82 40.00 26S 20E 29 12 13 40.00 / 17.03 40.00 40.00 40.00 40.00 1902 25 26 28 27 23 /<sub>40.00</sub> | 40.00 17.24 40.00 40.00 40.00 40.00 25 26 27 40.00 40.00 80.06 CH. 17.45 40.00 40.00 \$89°35'00"W 80.08 CH. S89°25'00"W 40.00 40.00 \$89°35'00"W 80.00 CH. 100 40.00 | 40.00 40.00 40.00 SEE MAP 40.00 Revised: MA 40.00 40.00 40.00 40.00 326.39 AC 35 33 3/4/2010 26S 20E 36 80.00 AC. 40.00 23 40.00 40.00 40.00 **!** 40.00 40.00 40.00 26S20E 2300 40.00 AC. 26 27 28 & INDEX 40.00 18.83 40.00 40.00 40.00 40.00 40.00

SEE MAP 27S 20E 04

SEE MAP 27S 20E

SEE MAP 27S 20E



<b>Zone 1</b> counties have a predicted average indoor radon screening level greater than 4 pCi/L (pico curies per liter) (red zones)	Highest Potential
Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L (orange zones)	Moderate Potential
Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L (yellow zones)	Low Potential

#### **Hazardous Materials Information Request** NOTE: ALL REQUESTER INFORMATION MUST BE PROVIDED BEFORE THE REQUEST CAN BE PROCESSED Mailing Address: Office of State Fire Marshal, CR2K Phone: (503) 378-6835 4760 Portland Rd. NE Fax: (503) 373-1825 Salem OR 97305-1760 Email: SFM.CR2K@state.or.us **1.** Requester/Title: Audrey Turpening **2.** Date Requested: 04/21/2010 3. Organization: Shaw Environmental, inc. **4.** Phone Number: (503) 603-1073 **5.** Email Address: **audrey.turpening@shawgrp.com** 6. Fax Number: (503) 603-1001 7. Requester Mailing Address: 8. Requester County & Street Address: 10300 SW Nimbus Avenue, Suite B Multnomah Portland, OR 97223 9. Describe what information you are requesting. Include the Name and Address of the Site(s) you are requesting information for. On the second page of this form, check the data elements you want included in your report, if applicable. If more space is needed than is provided, add additional pages. Any Records on file for the property listed as USAF Over-The-Horizon Radar Array, or any variation thereof. The Property is located north of Co Hwy 5-14, fourteen (14) miles east of Christmas Valley, Oregon in Lake County. Approximate lat/long is 43°16'34.02"N and 120°23'01.72"W 10. Describe what the information will be used for. Phase I Environmental Baseline Survey (EBS) **11.** How would you like to receive the information? **12.** If you are requesting 4, 5 or 6 please check format 1. ☐ Verbal ☐ Access □ Text 2. Printed Copy 5. Diskette ☐ Excel □ D-Base 6. CD, How Many ☐ Other / Specify format → OSFM USE ONLY Type of Organization Requesting Request Type ☐ Educational Organization ☐ General Medical ☐ HSIS CD ER ☐ Survey ☐ Emergency Management ☐ Hospital ☐ HSIS CD PUB ☐ Incident ☐ MSDS ☐ Environmental Consultant ☐ General Government ☐ Inc & Surv ☐ Law Enforcement ☐ HMT ☐ TRI ☐ Environmental Group ☐ H&M ER ☐ Fire Service ☐ Private Business ☐ H&M PUB □ EHS ☐ Financial Institution ☐ Public Pesticide □ 112R ☐ Secured HazClass □ PSM ☐ Other / Specify → Purpose Purpose □ Tech Asst $\square$ Other / Specify $\rightarrow$ ☐ Education / Library Person Receiving Request: Response ☐ Company Look-up ☐ Planning Person Providing Request: ☐ Presentation / Meeting ☐ Exercise Date Verified ☐ Regulatory ☐ ESA Date Request Provided: $\sqcap$ TTA Query Name: ☐ Other / Specify ↓ Provided: Special Approval Date/By: Type of S.I. H.C. Spec. Loc Emer Night #

On going One Time

### INSTRUCTIONS FOR FILLING OUT THE REQUESTER SECTION OF THIS FORM

# NOTE: ALL REQUESTER INFORMATION MUST BE PROVIDED BEFORE THE REQUEST CAN BE PROCESSED IF AN AREA OF THE REQUEST FORM DOES NOT APPLY, ENTER "NONE" OR "N/A"

**1. Requester:** Enter the name of the person requesting the information.

2. Date Requested: Enter the date the information is being requested.

Organization:
 Phone Number:
 Email Address:
 Enter the name of the organization the requester is affiliated with.
 Enter the Phone Number of the person requesting the Information.
 Enter the email address of the person requesting the information.
 Enter the phone Number of the person requesting the information.

7. Requester Mailing Address: Enter the mailing address of the person requesting the information.

**8. Requester Street Address:** Enter the street address of the person requesting the information. If the street address is the same as the mailing address enter "SAME".

- 9. Describe what information you are requesting: Enter a <u>detailed description</u> of the information you are requesting. Provide enough detail to give a clear understanding of what information you want. Be sure to include the **Name and Address** of the facility you are requesting the information for.
- **10. Describe what the information will be used for:** Enter a description of what this information will be used for.
- **11. How would you like to receive the Information?** Check the box that indicates how you would like to receive the information. If requesting fax or email, be sure to provide that information in number 5 or 6 as applicable.
- **12.** If you are requesting 4, 5 or 6 please check format: If requesting an electronic version of the information, check the box indicating the format in which you want to receive it. If the format you want is not identified by a check box, write the format in the area identified as "Other / Specify format".

### **SURVEY & INCIDENT DATABASE FIELD SELECTIONS:**

		SURVEY			SURVEY CONT
1.	$\boxtimes$	Are Hazardous Substances Present at Facility	35.		Storage Location-Restricted
2.		EHS Substances that Meet TPQ	36.	$\boxtimes$	Facility ID Number
3.		Subject to Sec 112R of CAA	37.		Geo Loc Codes
4.		Subject to PSM Requirements			
5.		NAICS Codes for Facility			
6.		Business Activity			
7.		Manager's Name			
8.		Send to Attention of			
9.		Email Address			
10.		Business Name			INCIDENT
11.		Department / Division	Α.		District of Incident
12.		Site Address	В.	$\boxtimes$	County of Incident
13.		Mailing Address	C.	$\boxtimes$	Dept. Responding
14.		Business Phone	D.	$\boxtimes$	Date of Incident ☐ Day of the Week
15.		Number of Employees	E.		Call Time (time alarm received)
16.		Emergency Contact Person	F.		In Route Time
17.		,	F.		Arrive Time
18.		Emergency Contact Night Number-Restricted	Н.		Depart Scene Time
19.			I.		Time Back in quarters
		Substance Name	J.		In Service Time
		Hazardous Ingredient	K.	$\boxtimes$	Incident Location
		Is or Contains a 112r substance	L.	$\boxtimes$	Responsible Party Information
23.		Is or Contains an EHS	Μ.		Scene Type
		Is or Contains a PSM substance	N.		Area Type
		Physical Sate	Ο.		Weather Type
26.			Ρ.	$\boxtimes$	Agencies Responding
	_	Max Amount. Code	Q.	$\boxtimes$	Action Taken
		Amount In	R.	$\boxtimes$	Source of Incident
29.	$\boxtimes$	Amount Out	S.	$\boxtimes$	Material Involved (Fuel, Cargo, Product, or Waste Material)
30.	_	3	Τ.	_	Cause of Incident
		Hazard Class	U.	$\boxtimes$	Hazmat Behavior on Release
32.		UN/NA Number	٧.	$\boxtimes$	Chemical Name and Information (e.g. # of containers, etc.)
		EPA Pesticide Reg. Number	W.	$\boxtimes$	Source Used to Identify Materials Involved
34.	$\boxtimes$	CAS Number	Χ.		Estimated Property Loss
			Y.		Casualties

### **Turpening, Audrey E**

From: SFM CR2K [sfm.cr2k@state.or.us]
Sent: Tuesday, April 27, 2010 4:58 PM

To: Turpening, Audrey E

Subject: Info Request Acknowledgment

Thank you for your information request relative to: USAF Over the Horizon Radar Array.

Please provide us with an address if you have one. Otherwise, well, I'll do the best I can. :)

We anticipate being able to fill your request by: I'm behind, but lets try for 5/18/10.

Note: This acknowledgment is in accordance with ORS 192.440(2), which requires a prompt response acknowledging receipt of your request.

Shelly Kendrick CR2K Information Assistant Office of State Fire Marshal 4760 Portland Rd NE Salem OR 97305-1760

Fax: 503-373-1825 Phone: 503-934-8353 <u>sfm.cr2k@state.or.us</u>

Web address: <a href="https://www.oregon.gov/osp/sfm">www.oregon.gov/osp/sfm</a>

Hazardous Substance Info Available Web Page:

http://www.oregon.gov/OSP/SFM/CR2K InfoAvailable.shtml

```
>>> "Turpening, Audrey E" <<u>audrey.turpening@shawgrp.com</u>> Wednesday,
>>> April 21, 2010 3:24 PM >>>
Hi Shelly,
```

Please see attached info request.

Thanks, and have a wonderful day.

Audrey Turpening, EIT

Engineer

Commercial Environmental/Engineering

Shaw Environmental and Infrastructure, Inc.

10300 SW Nimbus Ave, Suite B

Portland, OR 97223

(503) 603-1073 - direct

(503) 998-1690 - cell

(503) 603-1001 - fax

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www.shawgrp.com <a href="http://www.shawgrp.com/">www.shawgrp.com/>

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http://www.shawgrp.com



10300 S.W. Nimbus Ave, Suite E Portland, Oregon 97223-4345 (503) 603-1000

DATE:	March 31, 2010 – April 29, 2010	PROJECT NUMBER: 139122
PROJECT I	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	y, OR
CLIENT:	Oregon Military Department	PHONE NUMBER:
CALL FROM	M: Audrey Turpening - Shaw	
CALL TO:_	Jim Arnold – OMD	
	SUMMARY OF CONVERSATION	<u>ON</u>
Mr. Arnold	provided Shaw with background documentation (listed in app	endix E of the report) for the Property and the
adjacent 32	6 acre parcel that OMD already owns. Discussions were had	regarding the conclusions of these documents,
and their re	levance to the Property. Mr. Arnold also reviewed the draft P	hase I EBS prior to finalization and submittal to
OMD.		
PREPARED	BY: Audrey Turpening	
DISTRIBUT	ED BY:	



10300 S.W. Nimbus Ave, Suite B Portland, Oregon 97223-4345 (503) 603-1000

DATE: April 14, 2010	PROJECT NUMBER: 139122
PROJECT NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valle	y, OR
CLIENT: Oregon Military Department	PHONE NUMBER:
CALL FROM: Audrey Turpening - Shaw	
CALL TO: Bruce Vollstedt – OMD	
SUMMARY OF CONVERSATION	<u>ON</u>
Mr. Vollstedt escorted Shaw on the Property, and provided knowledge of	the Property, including boundaries. Mr. Vollstedt
provided Shaw access to historic records stored at the adjacent 326 acre	parcel on the USAF Radar site. These records
provided information that is discussed in the Phase I EBS report.	
PREPARED BY: Audrey Turpening	
DISTRIBUTED BY:	



10300 S.W. Nimbus Ave, Suite B Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 21, 2010	PROJECT NUMBER: 139122
PROJECT N	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	, OR
CLIENT:	Oregon Military Department	PHONE NUMBER:
CALL FROM	M: Audrey Turpening - Shaw	
CALL TO:_	Kris Mitchell, OMD	
	SUMMARY OF CONVERSATION	<u>DN</u>
Mr. Mitchell	provided Shaw with information regarding the natural and cu	ultural resources on the Property. He informed
Shaw that c	over 70 sites have been found, the entire site has been surve	yed, and the sites within the radar construction
area were p	previously mitigated. Users of the Property are required to m	anage the discovered sites in accordance with
SHPO rules	because some of the sites are eligible for inclusion in the National	onal Register.
PREPARED	BY: Audrey Turpening	
DISTRIBUT	ED BY:	



10300 S.W. Nimbus Ave, Suite E Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 26, 2010	PROJECT NUMBER: 139122
PROJECT N	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	, OR
CLIENT:	Oregon Military Department	PHONE NUMBER:
CALL FROM	M: Audrey Turpening - Shaw	
CALL TO:_	Art Arroyo - OMD	
	SUMMARY OF CONVERSATION	<u>DN</u>
Mr. Arroyo p	provided Shaw with current owner representative contact inform	nation - General Services Administration (GSA)
is a division	of the US Government that is managing the disposal (sale)	of the Property. Blaine Hastings is the current
contact for C	GSA for the Property.	
PREPARED	BY: Audrey Turpening	
	ED BY:	



10300 S.W. Nimbus Ave, Suite B Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 26, 2010	PROJECT NUMBER: 139122	
PROJECT N	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	, OR	
CLIENT:	Oregon Military Department	PHONE NUMBER:	
CALL FROM	M: Audrey Turpening - Shaw		
CALL TO:_	Dave Knowles – Lake County Assessor's Office		
SUMMARY OF CONVERSATION			
Provided SI	haw with minor information regarding the Property, specifical	ly tax lot information on the adjacent 326 acre	
parcel. Referred me to Lorene Blair, who could provide more information and tax lot maps.			
PREPARED	BY: Audrey Turpening		
DISTRIBUT	ED BY:		



10300 S.W. Nimbus Ave, Suite E Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 26, 2010	PROJECT NUMBER: 139122	
PROJECT N	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	/, OR	
CLIENT:	Oregon Military Department	PHONE NUMBER:	
CALL FROM	M: Audrey Turpening - Shaw		
CALL TO:_	Lorene Blair – Lake County Assessor's Office		
SUMMARY OF CONVERSATION			
Provided Sh	naw with tax lot maps for the Property via email. Informed S	haw the owner is the United States since Lake	
County began keeping records in 1970. The Property, Tax Lot 100, is non-taxable due to government ownership.			
PREPARED	DBY: Audrey Turpening		
DISTRIBUT	ED BY:		



10300 S.W. Nimbus Ave, Suite I Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 27, 2010	PROJECT NUMBER: 139122		
PROJECT N	NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley	/, OR		
CLIENT:	Oregon Military Department	PHONE NUMBER:		
CALL FROM	M: Audrey Turpening - Shaw			
CALL TO:_	Jennifer Stephens – Lake County Planning and Land Use			
	SUMMARY OF CONVERSATION			
Ms. Stepher	ns provided Shaw with zoning information for the Property. Th	e entire Property and the surrounding areas are		
zoned A-2: Agricultural Use.				
PREPARED	DBY: Audrey Turpening			
DISTRIBUT	ED BY:			



10300 S.W. Nimbus Ave, Suite I Portland, Oregon 97223-4345 (503) 603-1000

DATE:	April 27, 2010	PROJECT NUMBER: 139122		
PROJECT NAME: Phase I EBS - USAF OTH-B Radar Array, Christmas Valley, OR				
CLIENT:	Oregon Military Department	PHONE NUMBER:		
CALL FROM	M: Audrey Turpening - Shaw			
CALL TO: Adrian Blackman – Environmental Data Resources (EDR)				
SUMMARY OF CONVERSATION				
Mr. Blackman informed Shaw that a City Directory search was unavailable due to the lack of a physical address and the				
lack of any surrounding addresses for the Property.				
PREPARED	DBY: Audrey Turpening			
DISTRIBUTED BY:				

### **Turpening, Audrey E**

From: blaine.hastings@gsa.gov

**Sent:** Thursday, April 29, 2010 12:59 PM

To: Turpening, Audrey E

**Subject:** Re: Christmas Valley USAF Radar Array

Attachments: pic00058.gif

See answer below

I Blaine Hastings, Manager Real Property Disposal (9PZF-10) 400-15th Street S.W. Auburn, WA 98001

off. (253) 931-7550 fax. (253) 876-7209

"Turpening,

Audrey E" To

<audrey.turpenin <<u>blaine.hastings@gsa.gov</u>>

g@shawgrp.com> cc

04/26/2010 04:25 Subject

PM Christmas Valley USAF Radar Array

### Hi Blaine,

Thanks again for your time. Here are the legal questions that we are required to ask to complete the Phase I EBS.

Are you aware of any:

- 1. Litigation relevant to hazardous substances or petroleum products in, on, or from the Property; none known
- 2. Administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Property; none know or
- 3. Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products. none know Have a wonderful evening.

Audrey Turpening, EIT Engineer Commercial Environmental/Engineering Shaw Environmental and Infrastructure, Inc. 10300 SW Nimbus Ave, Suite B Portland, OR 97223 (503) 603-1073 - direct (503) 998-1690 - cell (503) 603-1001 - fax

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### Appendix F

Environmental Regulatory Agency Database Report

USAF Radar Site CO Hwy 514 Silver Lake, OR 97638

Inquiry Number: 2744861.9

April 23, 2010

# **USGS Aerial Photography Priority Package**



### Thank you for your business.

Please contact EDR at 1-800-352-0050 with any questions or comments.

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### **USGS** Aerial Photography

### Order # 2744861.9

Silver Lake, OR Lake County

Photo ID	Date	Scale
N10NAPPW07101037	1994	1"= 3333'
NB1NHAP820056021	1982	1"= 6666'
AR1VDOP00030105	1974	1"= 6333'

### Tips:

The following information is intended to assist you in the use of the USGS Aerials. Because the performance and use of different systems can vary greatly, questions on the use of each computer, and program used should be referred to the manufacturer of the computer and program.

### Opening and working with large .tiff files:

- Click on file to open once only (please be patient).
- o Close other programs to make memory available.
- o Only open one photo at a time, close photo before attempting to open another.
- USGS Aerials are provided in .tiff format on a DVD and may require a special program to open or edit.
- You must have a DVD-ROM drive on your computer to open the images.
- o If you have Windows XP/98se, the **Microsoft Paint Program** will allow you to view and edit the images. Other programs are available from Adobe and on the Internet.
- The files provided on the USGS DVD are very large (up to 400 megabytes) and can take up to 15 minutes, or longer, to open on your computer depending on your hardware and software.
- For faster opening, copy the files into your local hard drive prior to opening the files.
- USGS Aerials do not have a north indicator; please verify natural land marks such as lakes and rivers for proper alignment.
- Be sure your computer meets the minimum system requirements.
- o Minimum System Requirements:
  - Microsoft Windows 98/2000/XP Mac OS 9+ LINUX
  - o Pentium-300mhz + or equivalent
  - o 64 MB RAM
  - o HDD free space: 300 Mb for each photo 100 Mb of system disk space for a swap-file
  - o DVD-ROM Drive
  - .tiff editing/viewing program





Science for a changing world

0037 NAPP

**USAF Radar Site** 

CO Hwy 514 Silver Lake, OR 97638

Inquiry Number: 2744861.4

April 26, 2010

# The EDR Historical Topographic Map Report



# **EDR Historical Topographic Map Report**

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

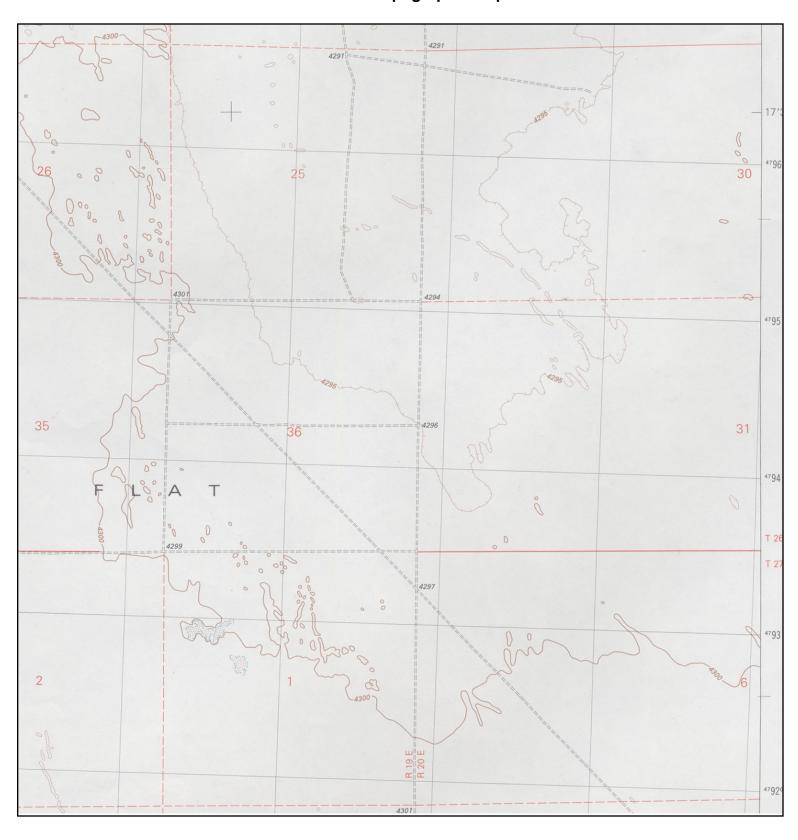
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# **Historical Topographic Map**





TARGET QUAD

NAME: Fossil Lake, OR

MAP YEAR: 1981

SERIES: 7.5 SCALE: 1:24,000 SITE NAME: USAF Radar Site

ADDRESS: CO Hwy 514

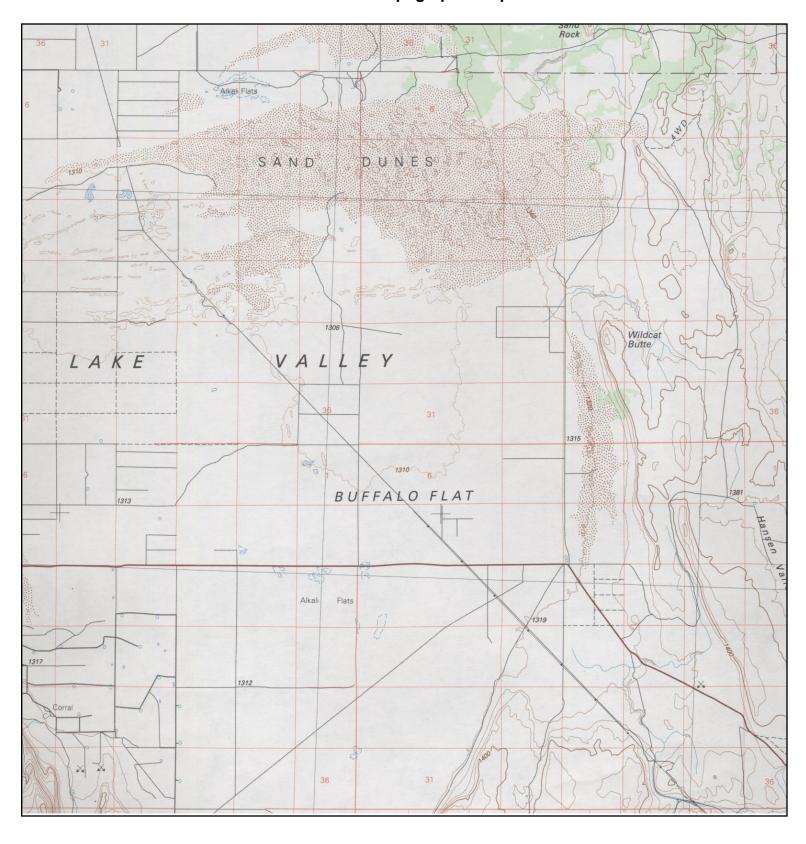
Silver Lake, OR 97638

LAT/LONG: 43.2741 / 120.3887

CLIENT: Shaw Environmental & Infrastructure

CONTACT: Audrey Turpening INQUIRY#: 2744861.4 RESEARCH DATE: 04/26/2010

# **Historical Topographic Map**





TARGET QUAD

NAME: Christmas Valley, OR

MAP YEAR: 1990

PHOTOINSPECTED FROM: 1986

SERIES: 30x60 SCALE: 1:100,000 SITE NAME: USAF Radar Site

ADDRESS: CO Hwy 514

Silver Lake, OR 97638

LAT/LONG: 43.2741 / 120.3887

CLIENT: Shaw Environmental &

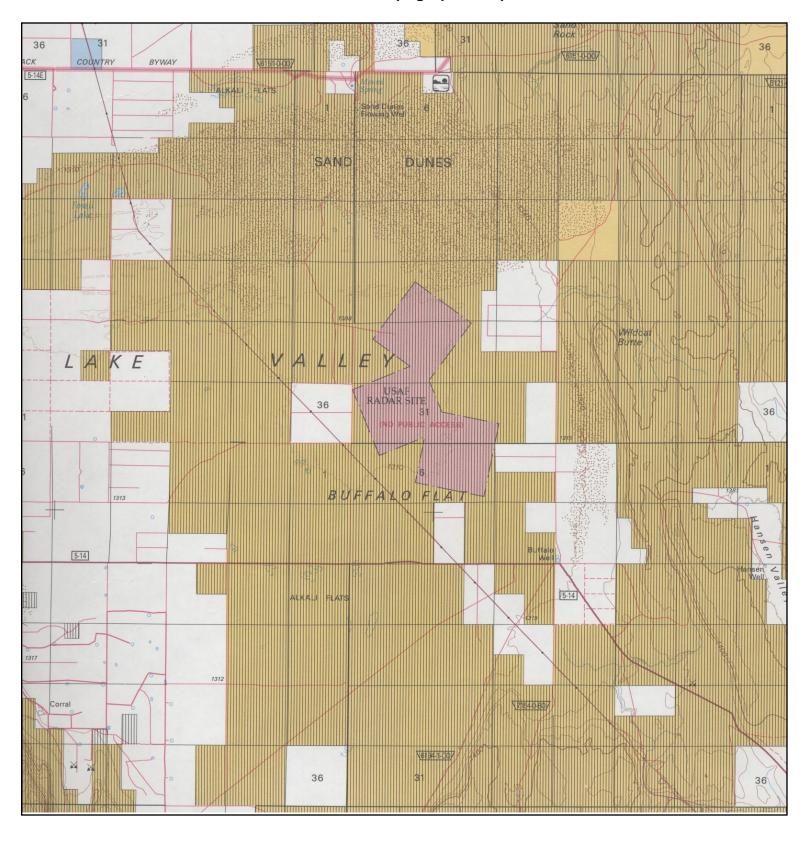
Infrastructure

CONTACT: Audrey Turpening

INQUIRY#: 2744861.4

RESEARCH DATE: 04/26/2010

# **Historical Topographic Map**





TARGET QUAD

NAME: Christmas Valley, OR

MAP YEAR: 2001

SERIES: 30x60 SCALE: 1:100,000 SITE NAME: USAF Radar Site

ADDRESS: CO Hwy 514

Silver Lake, OR 97638

LAT/LONG: 43.2741 / 120.3887

CLIENT: Shaw Environmental &

Infrastructure

CONTACT: Audrey Turpening

INQUIRY#: 2744861.4

RESEARCH DATE: 04/26/2010

# **USAF Radar Site**

CO Hwy 514 Silver Lake, OR 97638

Inquiry Number: 2744861.3

April 14, 2010

# **Certified Sanborn® Map Report**



# **Certified Sanborn® Map Report**

4/14/10

Site Name: Client Name:

USAF Radar Site Shaw Environmental & CO Hwy 514 10300 SW Nimbus Avenue Silver Lake, OR 97638 Portland, OR 97223

EDR Inquiry # 2744861.3 Contact: Audrey Turpening



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Shaw Environmental & Infrastructure were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## **Certified Sanborn Results:**

Site Name: USAF Radar Site Address: CO Hwy 514

City, State, Zip: Silver Lake, OR 97638

**Cross Street:** 

P.O. # NA Project: NA

Certification # 7BB7-40BF-9424



Sanborn® Library search results Certification # 7BB7-40BF-9424

### UNMAPPED PROPERTY

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

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Library of Congress

✓ University Publications of America

✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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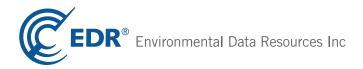
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USAF Radar Site CO Hwy 514 Silver Lake, OR 97638

Inquiry Number: 2744861.2s

April 14, 2010

# The EDR Radius Map™ Report with GeoCheck®



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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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

CO HWY 514 SILVER LAKE, OR 97638

#### **COORDINATES**

Latitude (North): 43.274100 - 43° 16' 26.8" Longitude (West): 120.388700 - 120° 23' 19.3"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 711904.8 UTM Y (Meters): 4794350.0

Elevation: 4300 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 43120-C4 FOSSIL LAKE, OR

Most Recent Revision: 1981

East Map: 43120-C3 SAND ROCK, OR

Most Recent Revision: 1981

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Photo Year: 2005 Source: USDA

# 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 CERCLIS..... FEDERAL FACILITY..... Federal Facility Site Information listing Federal CERCLIS NFRAP site List CERC-NFRAP..... CERCLIS No Further Remedial Action Planned 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 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 NPL ..... Environmental Cleanup Site Information System AOCONCERN......Columbia Slough State- and tribal - equivalent CERCLIS OR 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 Storage Tank Database

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

State and tribal registered storage tank lists

UST...... Underground Storage Tank Database

AST..... Aboveground Storage Tanks

INDIAN UST...... Underground Storage Tanks on Indian Land

FEMA UST...... Underground Storage Tank Listing

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

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

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

DEBRIS REGION 9...... Torres Martinez Reservation Illegal Dump Site Locations

ODI...... Open Dump Inventory

HIST LF..... Old Closed SW Disposal Sites

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

OR CRL..... Confirmed Release List and Inventory

AOCONCERN...... Columbia Slough

CDL...... Uninhabitable Drug Lab Properties

US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

LUCIS.....Land Use Control Information System

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spill Database

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators

DOT OPS..... Incident and Accident Data FUDS..... Formerly Used Defense Sites

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD...... Records Of Decision UMTRA..... Uranium Mill Tailings Sites MINES..... Mines Master Index File

TRIS...... Toxic Chemical Release Inventory System

TSCA...... Toxic Substances Control Act

FTTS\_\_\_\_\_\_FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS...... Integrated Compliance Information System PADS..... PCB Activity Database System MLTS..... Material Licensing Tracking System RADINFO...... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System UIC...... Underground Injection Control Program Database

MANIFEST..... Manifest Information OR HAZMAT..... Hazmat/Incidents DRYCLEANERS..... Drycleaning Facilities

NPDES...... Wastewater Permits Database AIRS..... Oregon Title V Facility Listing

HSIS..... Hazardous Substance Information Survey

INDIAN RESERV...... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

COAL ASH DOE..... Sleam-Electric Plan Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

#### **EDR PROPRIETARY RECORDS**

#### **EDR Proprietary Records**

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

#### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

## ADDITIONAL ENVIRONMENTAL RECORDS

## Other Ascertainable Records

DOD: 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.

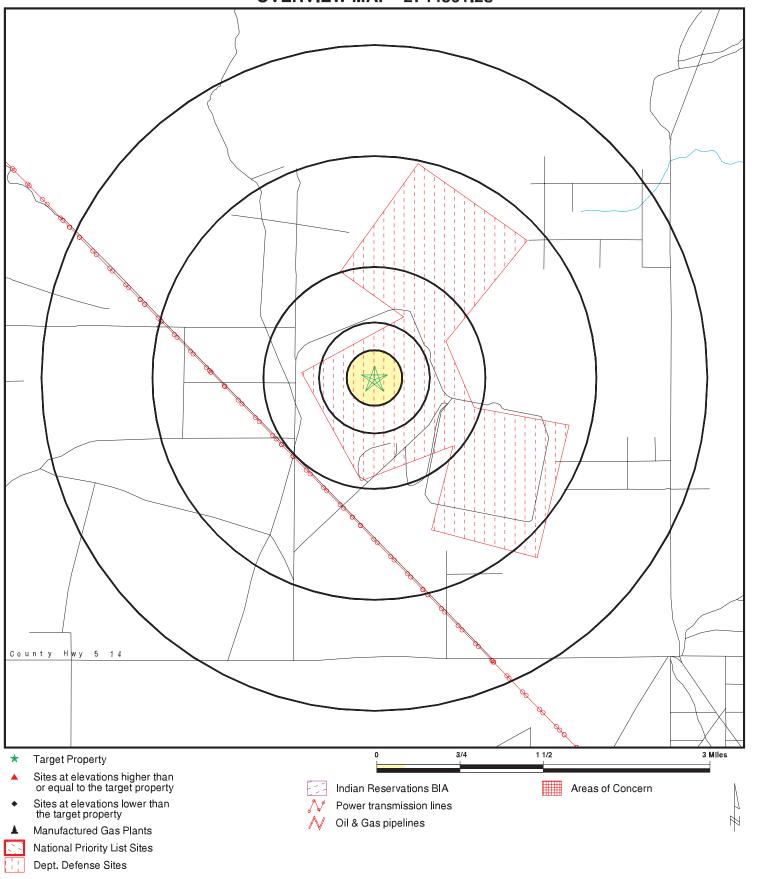
A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 2.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WEST COAST OVER THE HORIZON BA		0 - 1/8 (0.000 mi.)	0	7

Due to poor or inadequate address information, the following sites were not mapped:

Site Name **RT 19** RCRA-CESQG, FINDS, MANIFEST **OLE TURNBOW EXXON** ECSI, OR CRL, INST CONTROL, VCP, **BROWNFIELDS** OIL-DRI PRODUCTION CO. **ECSI** CHRISTMAS VALLEY RADAR BASE **ECSI GLASS BUTTES MINE** ECSI, OR CRL ECSI, OR CRL ANGEL PEAK MINE 3RD ST & NE CENTER ST FINDS, ECSI CS ANDRUS LUMBER MILL (FORMER) **ECSI** MP 46 & 4 MI S OF TOWN **CERC-NFRAP ED STAUB & SONS** AST ODOT **AST ROCKING Z CORP** AST, HSIS **ED STAUB & SONS** AST. HSIS **BPA** AST, HSIS SEC 24 FINDS, SWF/LF 3 OF SILVER LAKE OFF HWY SE FINDS, SWF/LF NORTH LAKE UNION LUST **ED STAUB & SONS PETROLEUM** LUST SILVER LAKE SHELL LUST LUST SILVER LAKE SHOP YARD LUST OR STATE HWY, 4-11 SILVER LAKE OREGON STATE HIGHWAY, 4-11 SILVER LUST SYCAN CAPACITOR STATION LUST SUMMER LAKE SUBSTATION LUST, UST FINDS, LUST SILVER LAKE RD USDA PUDDLE SPRINGS WORK CENTER UST UST SILVER LAKE SHELL WESTERN FUEL & REPAIR UST SILVER LAKE SHOP YARD UST UST OR STATE HWY, 4-11 SILVER LAKE UST SILVERLAKE CHEVRON SILVER LAKE MAINT. UST **ELIZABETH HUNTER** RCRA-NonGen **MAHOGANEY** RCRA-NonGen RCRA-CESQG, FINDS N MP 44 1 MI N & O CITY SILVER LAKE ADMINISTRATION - USFS( UIC ODOT- SILVER LAKE MAINTENANCE STN. UIC OIL-DRI PRODUCTION CO **MINES OREGON SUNSTONE INC MINES** DUST DEVIL MINING CO **MINES** ML KING ENTERPRISES INC **MINES** CORNERSTONE INDUSTRIAL MINERALS **MINES OREGON** ODI

# **OVERVIEW MAP - 2744861.2s**



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

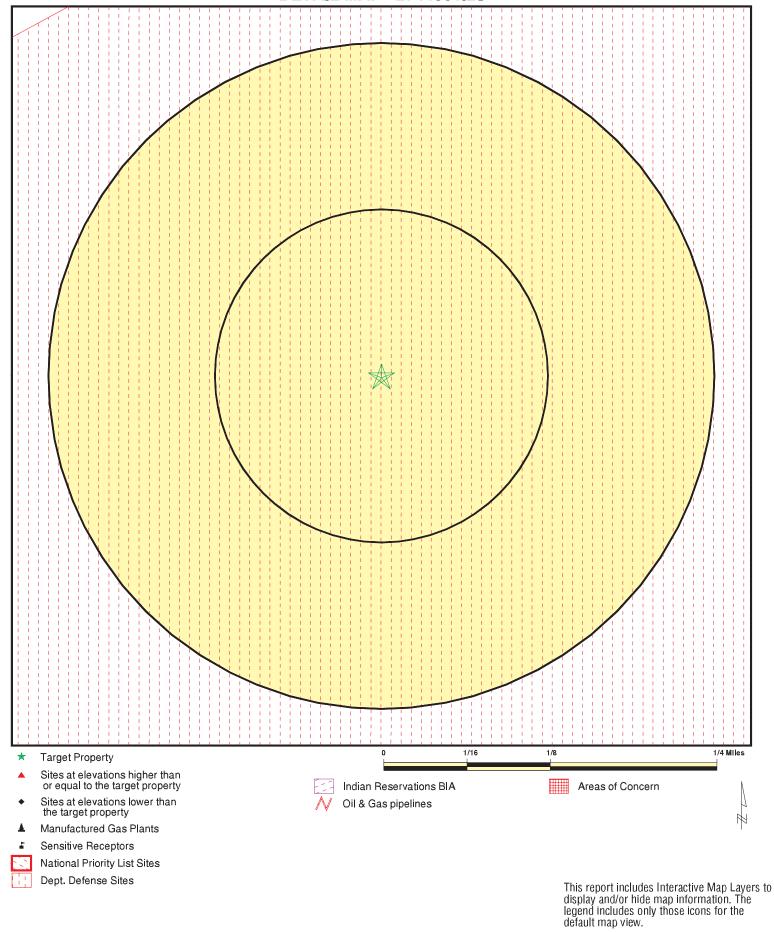
SITE NAME: USAF Radar Site

ADDRESS: CO Hwy 514

CLIENT: Shaw Environmental & Infrastructure CONTACT: Audrey Turpening

ADDRESS: CO Hwy 514
Silver Lake OR 97638
LAT/LONG: 43.2741 / 120.3887
CONTACT: Audrey Turpening
INQUIRY #: 2744861.2s
DATE: April 14, 2010 6:49 pm

# **DETAIL MAP - 2744861.2s**



April 14, 2010 6:49 pm

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**Audrey Turpening** 

Shaw Environmental & Infrastructure

CLIENT: CONTACT:

DATE:

INQUIRY #: 2744861.2s

SITE NAME: USAF Radar Site

CO Hwy 514

Silver Lake OR 97638

43.2741 / 120.3887

ADDRESS:

LAT/LONG:

# **MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS		2.750 2.750 TP	0 0 NR	0 0 NR	0 0 NR	0 0 NR	0 0 NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL		2.750	0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS FEDERAL FACILITY		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
Federal CERCLIS NFRAI	P site List							
CERC-NFRAP		2.750	0	0	0	0	0	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS		2.750	0	0	0	0	0	0
Federal RCRA non-CORI	RACTS TSD f	acilities list						
RCRA-TSDF		2.750	0	0	0	0	0	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG		2.750 2.750 2.750	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Federal institutional con engineering controls reg								
US ENG CONTROLS US INST CONTROL		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equiva	lent NPL							
ECSI AOCONCERN		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
State- and tribal - equivalent CERCLIS								
OR CRL		2.750	0	0	0	0	0	0
State and tribal landfill a solid waste disposal site								
SWF/LF		2.750	0	0	0	0	0	0
State and tribal leaking s	storage tank l	ists						
LUST		2.750	0	0	0	0	0	0

# **MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST		2.750	0	0	0	0	0	0
State and tribal registere	d storage tai	nk lists						
UST AST INDIAN UST FEMA UST		2.750 2.750 2.750 2.750	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
State and tribal institution control / engineering con		es						
ENG CONTROLS INST CONTROL		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
State and tribal voluntary	cleanup site	es						
VCP INDIAN VCP		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS		2.750	0	0	0	0	0	0
ADDITIONAL ENVIRONMEN	TAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS		2.750	0	0	0	0	0	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
DEBRIS REGION 9		2.750	0	0	0	0	0	0
ODI HIST LF		2.750 2.750	0 0	0 0	0 0	0 0	0 0	0 0
INDIAN ODI		2.750	0	0	0	0	0	0
Local Lists of Hazardous Contaminated Sites	waste /							
US CDL OR CRL		TP 2.750	NR 0	NR 0	NR 0	NR 0	NR 0	0
AOCONCERN CDL		2.750 TP	0 NR	0 NR	0 NR	0 NR	0 NR	0 0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2 LUCIS		TP 2.750	NR 0	NR 0	NR 0	NR 0	NR 0	0 0
Records of Emergency R	elease Repo	rts						
HMIRS SPILLS		TP TP	NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Reco	ords							
RCRA-NonGen		2.750	0	0	0	0	0	0

# **MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		2.750	1	0	0	0	0	1
FUDS		2.750	0	Ō	Ō	Ö	Ö	0
CONSENT		2.750	0	0	0	0	0	0
ROD		2.750	0	0	0	0	0	0
UMTRA		2.750	0	0	0	0	0	0
MINES		2.750	0	0	0	0	0	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		2.750	0	0	0	0	0	0
MANIFEST		2.750	0	0	0	0	0	0
OR HAZMAT		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		2.750	0	0	0	0	0	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
HSIS		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		2.750	0	0	0	0	0	0
SCRD DRYCLEANERS		2.750	0	0	0	0	0	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
COAL ASH EPA		2.750	0	0	0	0	0	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECOR	<u>IDS</u>							
EDR Proprietary Records	6							
Manufactured Gas Plants		2.750	0	0	0	0	0	0
Manufactured Gas Plants		2.750	U	U	U	U	U	U

# NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS Direction

Distance

Elevation Site Database(s)

EDR ID Number EPA ID Number

DOD WEST COAST OVER THE HORIZON BACKSCATTER RADAR SYSTEM Region

WEST COAST OVER THE HORIZ (County), OR

DOD CUSA107915 N/A

< 1/8 1 ft.

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported

Name 1: West Coast Over the Horizon Backscatter Radar System

Name 2: Not reported
Name 3: Not reported
State: OR

DOD Site: Yes
Tile name: ORLAKE

#### ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHRISTMAS VALLEY	S106236617	OLE TURNBOW EXXON	87634 CHRISTMAS VALLEY HWY	97638	ECSI, OR CRL, INST CONTROL, VCP BROWNFIELDS
CHRISTMAS VALLEY	1010330185	ELIZABETH HUNTER	MILE POST 57 HIGHWAY 31	97638	RCRA-NonGen
CHRISTMAS VALLEY	S106115400	OIL-DRI PRODUCTION CO.	56541 OIL-DRI RD	97638	ECSI
CHRISTMAS VALLEY		CHRISTMAS VALLEY RADAR BASE	WAGON TIRE RD / RADAR SITE R		ECSI
LAKE COUNTY		GLASS BUTTES MINE	23S/23E/S34,27,28 / 24S/23E/	0	ECSI, OR CRL
LAKE COUNTY	M300002366	OIL-DRI PRODUCTION CO	CHRISTMAS VALLEY OPERATION		MINES
LAKE COUNTY		ANGEL PEAK MINE	FOREST SERVICE RD #3660-108	0	ECSI, OR CRL
LAKE COUNTY	M300002178	OREGON SUNSTONE INC	GOLDSHEEN-LUSTRO-SCHILLER MINE		MINES
LAKE COUNTY		DUST DEVIL MINING CO	OREGON SUNSTONE OPERATION		MINES
LAKE COUNTY		ML KING ENTERPRISES INC	SUNSTONE OPERATION		MINES
LAKE COUNTY		CORNERSTONE INDUSTRIAL MINERALS	TUCKER HILL MINE		MINES
SILVER LAKE	1006867025		3RD ST & NE CENTER ST	97638	FINDS, ECSI
SILVER LAKE		CS ANDRUS LUMBER MILL (FORMER)	&		ECSI
SILVER LAKE	1004770778	00 / 11 2 (10 0 10 11 11 11 11 11 11 11 11 11 11 11	RT 19		RCRA-CESQG, FINDS, MANIFEST
SILVER LAKE		USDA PUDDLE SPRINGS WORK CENTER	RD 3003	97638	
SILVER LAKE		SILVER LAKE SHELL	HWY 31	97638	
SILVER LAKE		NORTH LAKE UNION	HWY 31		LUST
SILVER LAKE		ED STAUB & SONS	001 HWY 31	97638	
SILVER LAKE		ED STAUB & SONS PETROLEUM	HWY 31		LUST
SILVER LAKE		WESTERN FUEL & REPAIR	HWY 31	97638	
SILVER LAKE		SILVER LAKE SHELL	HWY 31		LUST
SILVER LAKE	A100304283		65573 HWY 31	97638	
SILVER LAKE		SILVER LAKE SHOP YARD	HWY 31		LUST
SILVER LAKE		SILVER LAKE SHOP YARD	HWY 31	97638	
SILVER LAKE		SILVER LAKE ADMINISTRATION - USFS(	HWY 31	97638	
SILVER LAKE		ODOT- SILVER LAKE MAINTENANCE STN.	HWY 395	97638	
SILVER LAKE	1004654860	ODOT- SIEVER LARE MAINTENANCE STN.	MP 46 & 4 MI S OF TOWN		CERC-NFRAP
SILVER LAKE		OR STATE HWY, 4-11 SILVER LAKE	N END OF SILVER LAKE	97638	
SILVER LAKE		OR STATE HWY, 4-11 SILVER LAKE	N END OF SILVER LAKE		LUST
SILVER LAKE		OREGON STATE HIGHWAY, 4-11 SILVER	END OF SILVER LAKE N		LUST
SILVER LAKE	1008405092	OKEGON GTATE THOMWAT, 4-11 SIEVEK	MAHOGANEY		RCRA-NonGen
SILVER LAKE	1004771233		N MP 44 1 MI N & O CITY		RCRA-CESQG. FINDS
SILVER LAKE		ROCKING Z CORP	74553 OATMAN FLAT LN		AST, HSIS
SILVER LAKE	1007445134	ROOKING 2 GORI	OREGON	97638	
SILVER LAKE		SYCAN CAPACITOR STATION	FS RD 2960		LUST
SILVER LAKE		SUMMER LAKE SUBSTATION	FS RD 2900 FS RD 2914		LUST, UST
SILVER LAKE	1006859081	SOMWER LAKE SOBSTATION	SEC 24		FINDS, SWF/LF
=					·
SILVER LAKE SILVER LAKE	1006863008 1006845536		3 OF SILVER LAKE OFF HWY SE SILVER LAKE RD		FINDS, SWF/LF FINDS, LUST
SILVER LAKE		SILVERLAKE CHEVRON	53327 3RD ST	97638	
SILVER LAKE		ED STAUB & SONS	53327 3RD ST		AST, HSIS
SILVER LAKE	0003188843	SILVER LAKE MAINT.	STREET	97638	091

#### ORPHAN SUMMARY

City	EDR ID Site Na	ame	Site Address	Zip	Database(s)
SILVER LAKE	S105745043 BPA		SYCAN COMP T31S	97638	AST, HSIS

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: 03/31/2010 Source: EPA
Date Data Arrived at EDR: 04/02/2010 Telephone: N/A

Date Made Active in Reports: 04/12/2010 Last EDR Contact: 04/02/2010

Number of Days to Update: 10 Next Scheduled EDR Contact: 07/26/2010
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

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: 03/31/2010 Source: EPA
Date Data Arrived at EDR: 04/02/2010 Telephone: N/A

Date Made Active in Reports: 04/12/2010 Last EDR Contact: 04/02/2010

Number of Days to Update: 10 Next Scheduled EDR Contact: 07/26/2010
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: 03/01/2010

Next Scheduled EDR Contact: 05/31/2010
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: 03/31/2010
Date Data Arrived at EDR: 04/02/2010

Date Made Active in Reports: 04/12/2010

Number of Days to Update: 10

Source: EPA Telephone: N/A

Last EDR Contact: 04/02/2010

Next Scheduled EDR Contact: 07/26/2010 Data Release Frequency: Quarterly

#### Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010 Date Data Arrived at EDR: 02/09/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 62

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 03/30/2010

Next Scheduled EDR Contact: 07/12/2010 Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realighnment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 06/23/2009 Date Data Arrived at EDR: 01/15/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 04/14/2010

Next Scheduled EDR Contact: 07/26/2010 Data Release Frequency: Varies

#### Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009 Date Data Arrived at EDR: 09/02/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 19

Source: EPA

Telephone: 703-412-9810 Last EDR Contact: 03/11/2010

Next Scheduled EDR Contact: 06/14/2010 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: 12/11/2009 Date Data Arrived at EDR: 12/29/2009 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 43

Source: EPA Telephone: 800-424-9346

Telephone: 800-424-9346 Last EDR Contact: 02/15/2010

Next Scheduled EDR Contact: 05/31/2010 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: 01/13/2010 Date Data Arrived at EDR: 01/15/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 02/19/2010

Next Scheduled EDR Contact: 04/19/2010 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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 02/19/2010

Next Scheduled EDR Contact: 04/19/2010 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: 01/13/2010
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/18/2010

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: (206) 553-1200

Last EDR Contact: 02/19/2010

Next Scheduled EDR Contact: 04/19/2010 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: 01/13/2010 Date Data Arrived at EDR: 01/15/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 34

Source: Environmental Protection Agency Telephone: (206) 553-1200

Last EDR Contact: 02/19/2010

Next Scheduled EDR Contact: 04/19/2010 Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

#### 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: 12/20/2009 Date Data Arrived at EDR: 01/20/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/15/2010

Next Scheduled EDR Contact: 06/28/2010 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: 12/20/2009 Date Data Arrived at EDR: 01/20/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 03/15/2010

Next Scheduled EDR Contact: 06/28/2010 Data Release Frequency: Varies

#### Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 01/22/2010 Date Made Active in Reports: 02/11/2010

Number of Days to Update: 20

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 04/07/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Annually

#### State- and tribal - equivalent NPL

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 01/29/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 18

Source: Department of Environmental Quality

Telephone: 503-229-6629 Last EDR Contact: 01/29/2010

Next Scheduled EDR Contact: 05/10/2010 Data Release Frequency: Quarterly

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 February , 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

#### State- and tribal - equivalent CERCLIS

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

Date of Government Version: 02/23/2010 Date Data Arrived at EDR: 02/24/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 23

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 02/24/2010

Next Scheduled EDR Contact: 06/07/2010 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: 03/01/2010 Date Data Arrived at EDR: 03/02/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 17

Source: Department of Environmental Quality

Telephone: 503-229-6299 Last EDR Contact: 03/01/2010

Next Scheduled EDR Contact: 06/14/2010 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: 01/01/2010 Date Data Arrived at EDR: 02/24/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 23

Source: Department of Environmental Quality

Telephone: 503-229-5790 Last EDR Contact: 04/08/2010

Next Scheduled EDR Contact: 06/07/2010 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: 02/02/2010 Date Data Arrived at EDR: 02/03/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 15

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

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

Date of Government Version: 03/10/2010 Date Data Arrived at EDR: 03/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 27

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/24/2009 Date Data Arrived at EDR: 05/20/2009 Date Made Active in Reports: 06/17/2009

Number of Days to Update: 28

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

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

Date of Government Version: 02/01/2010 Date Data Arrived at EDR: 03/03/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/25/2010 Date Data Arrived at EDR: 02/25/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 46

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

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

Date of Government Version: 02/19/2009 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 03/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 03/05/2010 Date Data Arrived at EDR: 03/05/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 38

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

#### State and tribal registered storage tank lists

UST: Underground Storage Tank Database

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

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/24/2010 Date Made Active in Reports: 03/18/2010

Number of Days to Update: 22

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 04/08/2010

Next Scheduled EDR Contact: 06/07/2010 Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 10/20/2009 Date Data Arrived at EDR: 11/20/2009 Date Made Active in Reports: 12/08/2009

Number of Days to Update: 18

Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 02/11/2010

Next Scheduled EDR Contact: 05/24/2010 Data Release Frequency: Semi-Annually

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: 02/02/2010 Date Data Arrived at EDR: 02/03/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 15

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 02/17/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

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: 04/01/2008 Date Data Arrived at EDR: 12/30/2008 Date Made Active in Reports: 03/16/2009

Number of Days to Update: 76

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010

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: 02/25/2010 Date Data Arrived at EDR: 02/25/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 46

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

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: 02/01/2010 Date Data Arrived at EDR: 03/03/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 40

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 03/10/2010 Date Data Arrived at EDR: 03/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 27

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Semi-Annually

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: 02/11/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 60

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/08/2010 Date Data Arrived at EDR: 02/09/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 9

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Semi-Annually

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: 02/19/2009 Date Data Arrived at EDR: 02/19/2009

Date Made Active in Reports: 03/16/2009

Number of Days to Update: 25

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 03/01/2010

Next Scheduled EDR Contact: 05/17/2010

Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010 Date Data Arrived at EDR: 02/16/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 55

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 01/18/2010

Next Scheduled EDR Contact: 05/03/2010 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: 01/01/2010 Date Data Arrived at EDR: 01/29/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 18

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 01/29/2010

Next Scheduled EDR Contact: 05/10/2010 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: 01/01/2010 Date Data Arrived at EDR: 01/29/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 18

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 01/29/2010

Next Scheduled EDR Contact: 05/10/2010 Data Release Frequency: Quarterly

#### State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

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: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 04/05/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Varies

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: 02/03/2010 Date Data Arrived at EDR: 02/04/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 12

Source: DEQ

Telephone: 503-229-5256 Last EDR Contact: 04/12/2010

Next Scheduled EDR Contact: 07/26/2010 Data Release Frequency: Quarterly

#### State and tribal Brownfields sites

**BROWNFIELDS: Brownfields Projects** 

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

Date of Government Version: 02/23/2010 Date Data Arrived at EDR: 02/24/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 23

Source: Department of Environmental Quality

Telephone: 503-229-6801 Last EDR Contact: 02/24/2010

Next Scheduled EDR Contact: 06/07/2010 Data Release Frequency: Semi-Annually

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2009 Date Data Arrived at EDR: 11/04/2009 Date Made Active in Reports: 12/16/2009

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/23/2010

Next Scheduled EDR Contact: 07/12/2010 Data Release Frequency: Semi-Annually

#### Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 03/22/2010

Next Scheduled EDR Contact: 06/21/2010 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

HIST LF: Old Closed SW Disposal Sites

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

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: 02/08/2010

Next Scheduled EDR Contact: 05/24/2010 Data Release Frequency: Varies

#### Local Lists of Hazardous waste / Contaminated Sites

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: 08/19/2009 Date Data Arrived at EDR: 12/29/2009 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 43

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 12/14/2009

Next Scheduled EDR Contact: 03/22/2010 Data Release Frequency: Quarterly

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

Date of Government Version: 02/23/2010 Date Data Arrived at EDR: 02/24/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 23

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 02/24/2010

Next Scheduled EDR Contact: 06/07/2010 Data Release Frequency: Quarterly

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 February, 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: 11/20/2009 Date Data Arrived at EDR: 12/01/2009 Date Made Active in Reports: 12/14/2009

Number of Days to Update: 13

Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010

Data Release Frequency: Varies

CDL: Uninhabitable Drug Lab Properties

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.

Date of Government Version: 02/19/2010 Date Data Arrived at EDR: 03/02/2010 Date Made Active in Reports: 03/19/2010

Number of Days to Update: 17

Source: Department of Consumer & Business Services

Telephone: 503-378-4133 Last EDR Contact: 02/25/2010

Next Scheduled EDR Contact: 06/07/2010 Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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: 09/01/2007 Date Data Arrived at EDR: 11/19/2008 Date Made Active in Reports: 03/30/2009

Number of Days to Update: 131

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 03/23/2009

Next Scheduled EDR Contact: 06/22/2009 Data Release Frequency: No Update Planned

#### Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/05/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 60

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

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: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 31

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 03/17/2010

Next Scheduled EDR Contact: 06/07/2010

Data Release Frequency: Varies

### Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 01/06/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 35

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 04/07/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Annually

SPILLS: Spill Data

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

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 01/05/2010 Date Made Active in Reports: 01/19/2010

Number of Days to Update: 14

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 04/05/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Semi-Annually

## Other Ascertainable Records

RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 01/13/2010 Date Data Arrived at EDR: 01/15/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 34

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 02/19/2010

Next Scheduled EDR Contact: 04/19/2010 Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010 Date Data Arrived at EDR: 02/09/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 62

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 02/09/2010

Next Scheduled EDR Contact: 05/24/2010 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: 703-692-8801 Last EDR Contact: 01/19/2010

Next Scheduled EDR Contact: 05/03/2010 Data Release Frequency: Semi-Annually

#### 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: 12/31/2008 Date Data Arrived at EDR: 09/30/2009 Date Made Active in Reports: 12/01/2009

Number of Days to Update: 62

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 03/18/2010

Next Scheduled EDR Contact: 06/28/2010 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: 08/03/2009 Date Data Arrived at EDR: 10/27/2009 Date Made Active in Reports: 11/09/2009

Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/05/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Varies

#### 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: 12/01/2009 Date Data Arrived at EDR: 12/15/2009 Date Made Active in Reports: 01/19/2010

Number of Days to Update: 35

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 04/02/2010

Next Scheduled EDR Contact: 06/28/2010 Data Release Frequency: Annually

#### UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 01/05/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 05/08/2009

Number of Days to Update: 1

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 01/21/2010

Next Scheduled EDR Contact: 06/14/2010 Data Release Frequency: Varies

### MINES: Mines Master Index File

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

Date of Government Version: 11/17/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 01/19/2010

Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 03/10/2010

Next Scheduled EDR Contact: 06/21/2010 Data Release Frequency: Semi-Annually

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: 12/31/2008 Date Data Arrived at EDR: 01/13/2010 Date Made Active in Reports: 02/18/2010

Number of Days to Update: 36

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 03/02/2010

Next Scheduled EDR Contact: 06/14/2010 Data Release Frequency: Annually

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: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006

Number of Days to Update: 46

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 03/30/2010

Next Scheduled EDR Contact: 07/12/2010 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

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

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 03/01/2010

Next Scheduled EDR Contact: 06/14/2010 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: 03/01/2010

Next Scheduled EDR Contact: 06/14/2010 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

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: 12/31/2008 Date Data Arrived at EDR: 01/06/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 35

Source: EPA Telephone: 202-564-4203

Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/10/2009 Date Data Arrived at EDR: 11/18/2009 Date Made Active in Reports: 01/19/2010

Number of Days to Update: 62

Source: Environmental Protection Agency

Telephone: 202-564-5088 Last EDR Contact: 03/29/2010

Next Scheduled EDR Contact: 07/12/2010 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 09/01/2009 Date Data Arrived at EDR: 10/21/2009 Date Made Active in Reports: 12/01/2009

Number of Days to Update: 41

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 02/16/2010

Next Scheduled EDR Contact: 05/03/2010 Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 12/24/2009 Date Data Arrived at EDR: 12/31/2009 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 41

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 03/15/2010

Next Scheduled EDR Contact: 06/28/2010 Data Release Frequency: Quarterly

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: 01/12/2010 Date Data Arrived at EDR: 01/13/2010 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 28

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/14/2010

Next Scheduled EDR Contact: 07/26/2010 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: 10/19/2009 Date Data Arrived at EDR: 10/22/2009 Date Made Active in Reports: 12/01/2009

Number of Days to Update: 40

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 03/15/2010

Next Scheduled EDR Contact: 06/28/2010 Data Release Frequency: Quarterly

## 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

### 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: 12/31/2007 Date Data Arrived at EDR: 02/19/2009 Date Made Active in Reports: 05/22/2009

Number of Days to Update: 92

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 02/25/2010

Next Scheduled EDR Contact: 06/07/2010 Data Release Frequency: Biennially

#### 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: 01/25/2010 Date Data Arrived at EDR: 01/25/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 22

Source: Department of Environmental Quality

Telephone: 503-229-5945 Last EDR Contact: 04/05/2010

Next Scheduled EDR Contact: 07/19/2010 Data Release Frequency: Varies

OR MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 07/14/2009 Date Made Active in Reports: 07/29/2009

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: N/A

Last EDR Contact: 02/15/2010

Next Scheduled EDR Contact: 05/31/2010 Data Release Frequency: 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: 11/20/2009 Date Data Arrived at EDR: 12/01/2009 Date Made Active in Reports: 12/14/2009

Number of Days to Update: 13

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 01/31/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 5

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 02/08/2010

Next Scheduled EDR Contact: 05/24/2010 Data Release Frequency: Varies

NPDES: Wastewater Permits Database

A listing of permitted wastewater facilities.

Date of Government Version: 02/10/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 02/16/2010

Number of Days to Update: 5

Source: Department of Environmental Quality

Telephone: 503-229-5657 Last EDR Contact: 02/01/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 12/28/2009 Date Made Active in Reports: 01/19/2010

Number of Days to Update: 22

Source: Department of Environmental Quality

Telephone: 503-229-6459 Last EDR Contact: 03/08/2010

Next Scheduled EDR Contact: 06/21/2010 Data Release Frequency: Varies

HSIS: Hazardous Substance Information Survey

Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 10/20/2009 Date Data Arrived at EDR: 11/20/2009 Date Made Active in Reports: 12/02/2009

Number of Days to Update: 12

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 02/11/2010

Next Scheduled EDR Contact: 05/24/2010 Data Release Frequency: Semi-Annually

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: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 34

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 01/19/2010

Next Scheduled EDR Contact: 05/03/2010 Data Release Frequency: Semi-Annually

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: 02/10/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 04/12/2010

Number of Days to Update: 60

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 02/08/2010

Next Scheduled EDR Contact: 05/10/2010 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: 01/01/2008 Date Data Arrived at EDR: 02/18/2009 Date Made Active in Reports: 05/29/2009

Number of Days to Update: 100

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 02/24/2010

Next Scheduled EDR Contact: 05/17/2010 Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 01/27/2010

Next Scheduled EDR Contact: 05/03/2010 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: 11/09/2009 Date Data Arrived at EDR: 12/18/2009 Date Made Active in Reports: 02/10/2010

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/16/2010

Next Scheduled EDR Contact: 06/28/2010 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 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: 01/19/2010

Next Scheduled EDR Contact: 05/03/2010

Data Release Frequency: N/A

### **EDR PROPRIETARY RECORDS**

## **EDR Proprietary Records**

Manufactured Gas Plants: 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

#### 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: 01/04/2010 Date Data Arrived at EDR: 02/11/2010 Date Made Active in Reports: 03/17/2010

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 02/11/2010

Next Scheduled EDR Contact: 05/24/2010 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008 Date Data Arrived at EDR: 07/17/2009 Date Made Active in Reports: 08/10/2009

Number of Days to Update: 24

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 03/22/2010

Next Scheduled EDR Contact: 07/05/2010 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277

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.

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, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

State Wetlands Data: Wetlands Inventory Data Source: Oregon Geospatial Enterprise Office

Telephone: 503-378-2166

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

#### **TARGET PROPERTY ADDRESS**

USAF RADAR SITE CO HWY 514 SILVER LAKE, OR 97638

### **TARGET PROPERTY COORDINATES**

Latitude (North): 43.27410 - 43° 16' 26.8" Longitude (West): 120.3887 - 120° 23' 19.3"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 711904.8 UTM Y (Meters): 4794350.0

Elevation: 4300 ft. above sea level

## **USGS TOPOGRAPHIC MAP**

Target Property Map: 43120-C4 FOSSIL LAKE, OR

Most Recent Revision: 1981

East Map: 43120-C3 SAND ROCK, OR

Most Recent Revision: 1981

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

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

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

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

## **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).

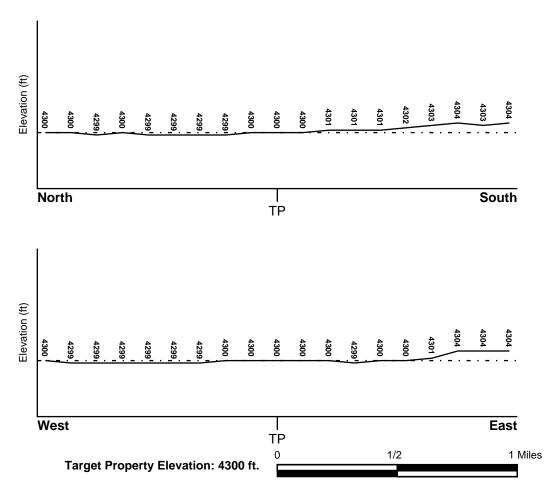
## **TOPOGRAPHIC INFORMATION**

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 NNE

### **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** 

FEMA Flood Electronic Data

Target Property County LAKE, OR

Not Available

Flood Plain Panel at Target Property:

Not Reported

Additional Panels in search area:

Not Reported

NATIONAL WETLAND INVENTORY

NWI Electronic

NWI Quad at Target Property

Data Coverage

NOT AVAILABLE

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.

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

MAP ID 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 Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (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: FLAGSTAFF

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic

conductivity, wet state high in profile, etc. Depth to water table is

1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information									
	Boundary			Classification					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)		
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90		
2	3 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 8.50		
3	14 inches	60 inches	cemented	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: sand

loamy sand sandy loam

Surficial Soil Types: sand

loamy sand sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

unweathered bedrock

silt loam

weathered bedrock

## **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 2.750

Federal FRDS PWS Nearest PWS within 1 mile

State Database 2.750

## 

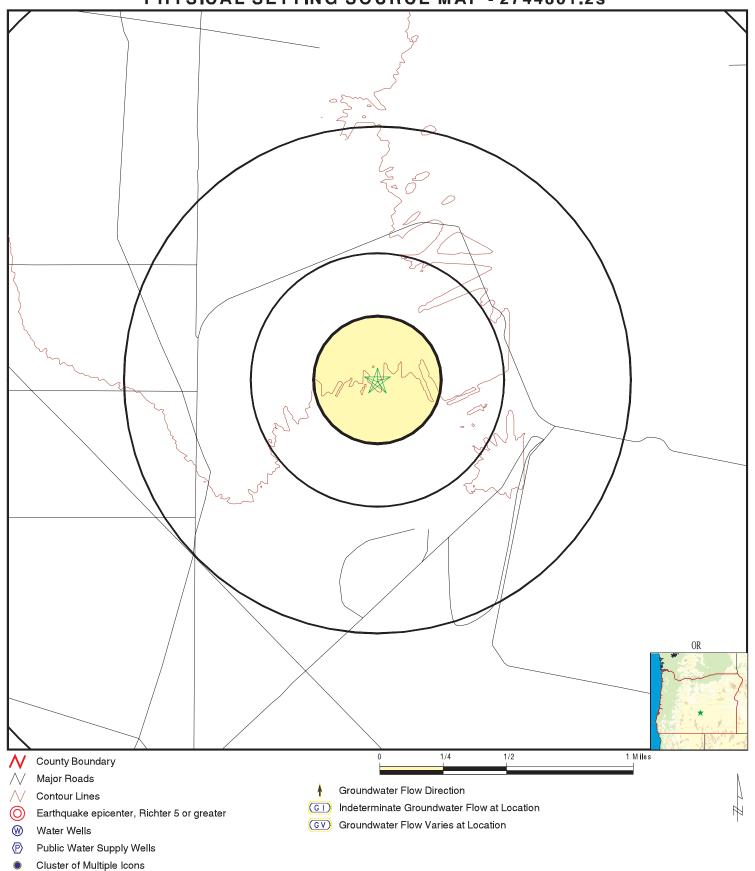
## STATE DATABASE WELL INFORMATION

FEDERAL USGS WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

## PHYSICAL SETTING SOURCE MAP - 2744861.2s



SITE NAME: USAF Radar Site ADDRESS: CO Hwy 514

Silver Lake OR 97638 LAT/LONG: 43.2741 / 120.3887

Shaw Environmental & Infrastructure

CLIENT: Shaw Environmen CONTACT: Audrey Turpening INQUIRY#: 2744861.2s

April 14, 2010 6:50 pm DATE:

## GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for LAKE 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

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 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<sup>R</sup> 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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

Water Well Data

Source: Department of Water Resources

Telephone: 503-986-0843

### OTHER STATE DATABASE INFORMATION

### **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

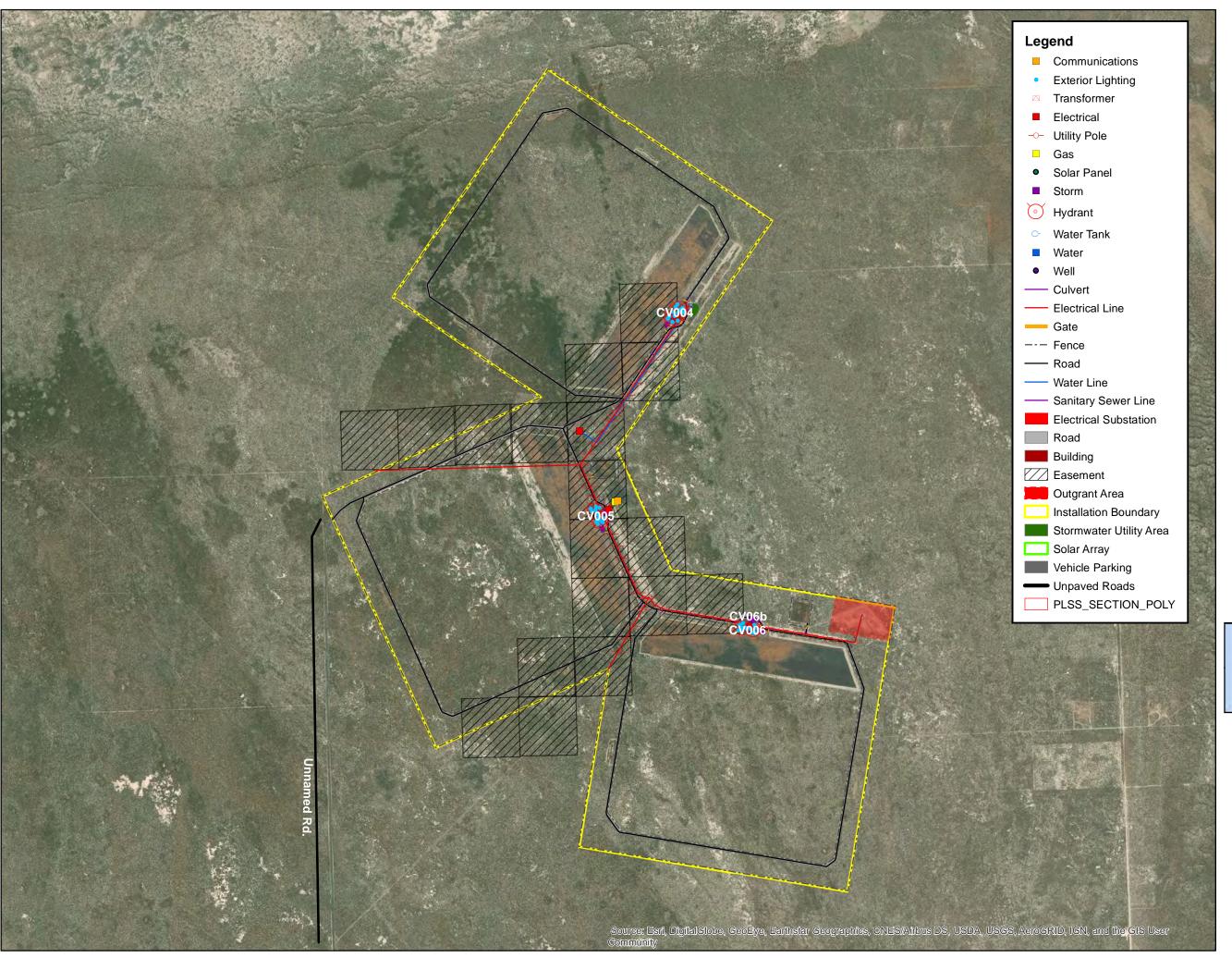
Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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# Site # 41A33 Christmas Valley Radar Site





Christmas Valley Radar Site

Address: 94481 Christmas Valley Highway Christmas Valley, OR 97641

1 inch = 2,000 feet 1,000 2,000 4,0



T: 26 S R: 20 E Sec: 31 NAD 83 UTM Zone 10 North Projection: Transverse Mercator Aug 2018

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

Christmas Valley Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657191.3

May 21, 2019

## **Certified Sanborn® Map Report**



## **Certified Sanborn® Map Report**

05/21/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657191.3 Contact: Brittany Kirchmann



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

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

## Certified Sanborn Results:

Certification # 296B-4D86-BB6D

PO# NA

Project Christmas Valley 1

## **UNMAPPED PROPERTY**

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



Sanborn® Library search results

Certification #: 296B-4D86-BB6D

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

✓ Library of Congress

University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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## **Christmas Valley**

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657191.5

May 22, 2019

## The EDR Aerial Photo Decade Package



## **EDR Aerial Photo Decade Package**

05/22/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657191.5 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>	<u>Details</u>	Source
2016	1"=875'	Flight Year: 2016	USDA/NAIP
2012	1"=875'	Flight Year: 2012	USDA/NAIP
2009	1"=875'	Flight Year: 2009	USDA/NAIP
2005	1"=875'	Flight Year: 2005	USDA/NAIP
1994	1"=875'	Flight Date: July 01, 1994	USGS
1982	1"=1000'	Flight Date: July 23, 1982	USGS
1976	1"=875'	Flight Date: July 13, 1976	USGS
1974	1"=875'	Flight Date: July 31, 1974	USGS
1953	1"=875'	Flight Date: July 25, 1953	USGS

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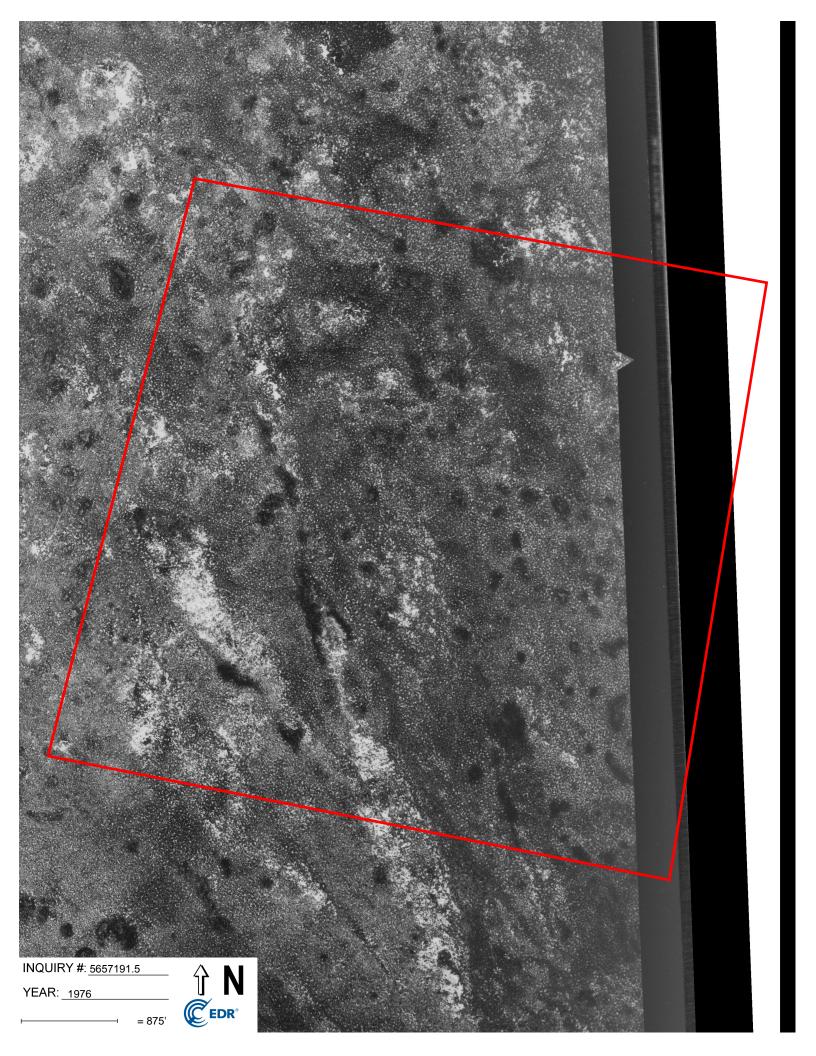


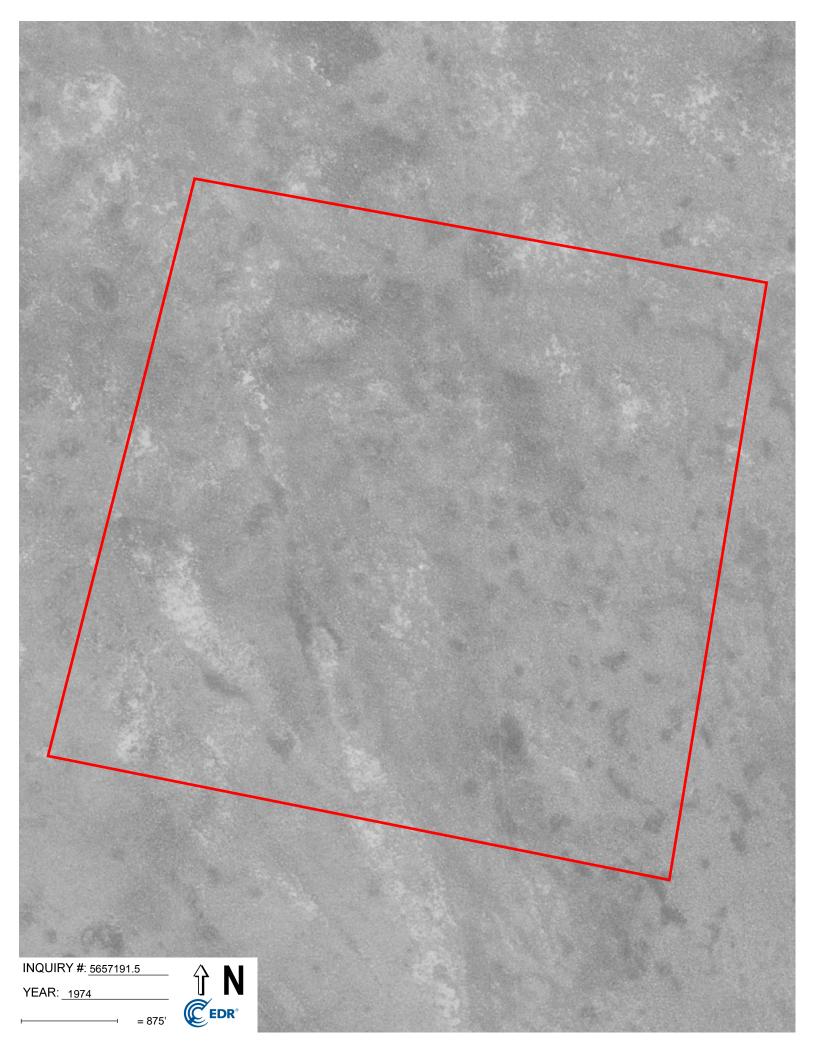


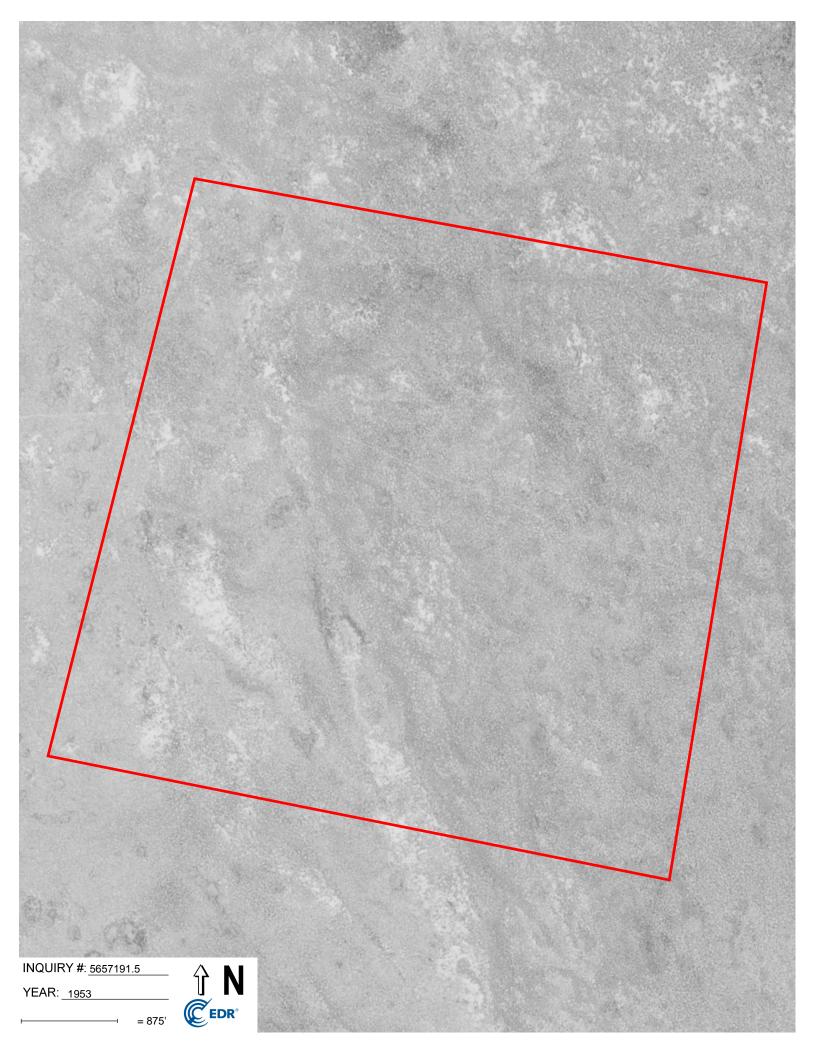












**Christmas Valley** 

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657191.2s

May 21, 2019

## The EDR Radius Map™ Report with GeoCheck®



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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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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**

CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

### **COORDINATES**

Latitude (North): 43.2622400 - 43° 15' 44.06" Longitude (West): 120.3675040 - 120° 22' 3.01"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 713666.4 UTM Y (Meters): 4793086.5

Elevation: 4306 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6070073 SAND ROCK, OR

Version Date: 2014

Southeast Map: 6069999 BUFFALO WELL, OR

Version Date: 2014

Southwest Map: 6070091 VAUGHN WELL, OR

Version Date: 2014

Northwest Map: 6070105 FOSSIL LAKE, OR

Version Date: 2014

### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20140906 Source: USDA

## MAPPED SITES SUMMARY

Target Property Address: CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
Reg	WEST COAST OVER THE		DOD	Same	1 ft.
1	CHRISTMAS VALLEY RAD	WAGON TIRE RD & RADA	ECSI	Lower	1785. 0.338. NNW

### 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

<b>FEDERAL</b>	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

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 Storage Tank Database INDIAN LUST..... Leaking Underground 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

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

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 DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI\_\_\_\_\_Open Dump Inventory
IHS OPEN DUMPS\_\_\_\_\_Open Dumps on Indian Land

#### Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN...... Columbia Slough

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL...... Uninhabitable Drug Lab Properties US CDL...... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spill Database OR HAZMAT..... Hazmat/Incidents

SPILLS 90 data from FirstSearch

Other Ascertainable Records

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

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION........... 2020 Corrective Action Program List

SSTS..... Section 7 Tracking Systems ROD...... Records Of Decision RMP..... Risk Management Plans

RAATS....... RCRA Administrative Action Tracking System

PRP...... Potentially Responsible Parties PADS..... PCB Activity Database System

ICIS\_\_\_\_\_\_Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

MLTS..... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS...... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File ABANDONED MINES..... Abandoned Mines

FINDS......Facility Index System/Facility Registry System ECHO..... Enforcement & Compliance History Information

DOCKET HWC..... Hazardous Waste Compliance Docket Listing

UXO...... Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

DRYCLEANERS\_\_\_\_\_\_ Drycleaning Facilities
Enforcement Action Listing

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 identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

### STANDARD ENVIRONMENTAL RECORDS

## State- and tribal - equivalent CERCLIS

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 ECSI

site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CHRISTMAS VALLEY RAD Investigation: No Further Action State ID Number: 4352	WAGON TIRE RD & RADA	NNW 1/4 - 1/2 (0.338 mi.)	1	8

### ADDITIONAL ENVIRONMENTAL RECORDS

### Other Ascertainable Records

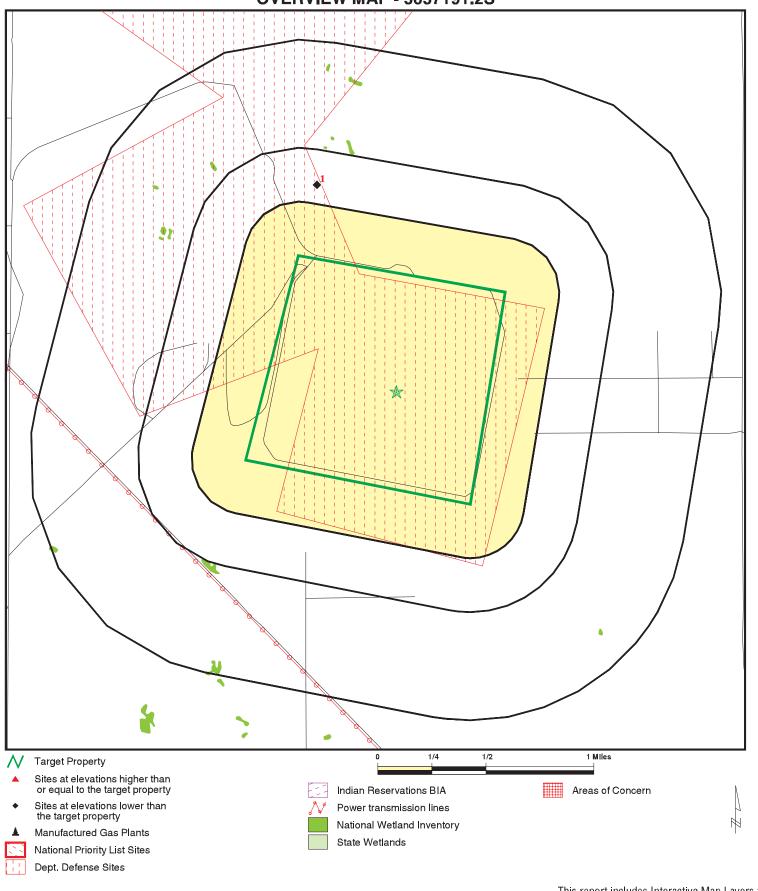
DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
WEST COAST OVER THE		0 - 1/8 (0.000 mi.)	0	8

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.				
Site Name	Database(s)			
CHRISTMAS VALLEY RANCH SUPPLY*	EDR Hist Auto			

# **OVERVIEW MAP - 5657191.2S**

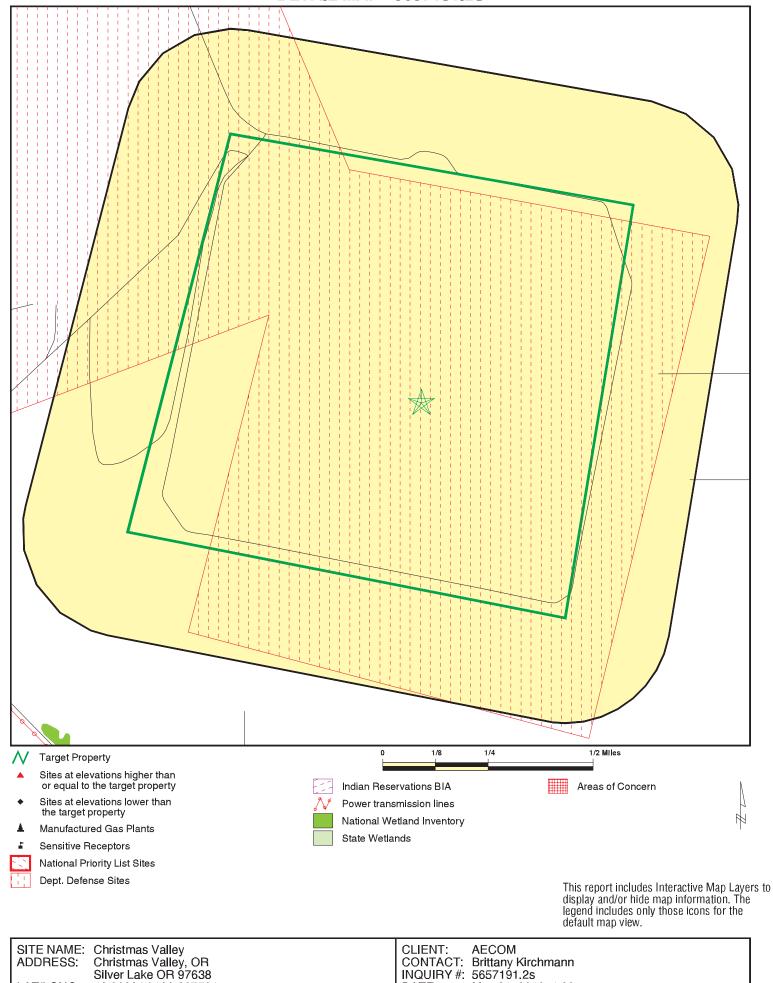


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Christmas Valley
ADDRESS: Christmas Valley, OR
Silver Lake OR 97638
LAT/LONG: 43.26224 / 120.367504

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5657191.2s
DATE: May 21, 2019 4:28 pm

# **DETAIL MAP - 5657191.2S**



ADDRESS:

LAT/LONG:

43.26224 / 120.367504

May 21, 2019 4:29 pm Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

INQUIRY#: 5657191.2s

DATE:

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 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	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 li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	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	3						
ECSI CRL	1.000 1.000		0 0	0 0	1 0	0 0	NR NR	1 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 l	ists						
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	ed storage tan	ık 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 institution control / engineering con		:						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	s						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfield	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENT	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / So Waste Disposal Sites	olid							
HIST LF SWRCY INDIAN ODI DEBRIS REGION 9 ODI 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	0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste/							
AOCONCERN US HIST CDL CDL US CDL	1.000 TP TP TP		0 NR NR NR	0 NR NR NR	0 NR NR NR	0 NR 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 R	elease Repor	ts						
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 Reco	ords							
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000		0 0 1	0 0 0	NR 0 0	NR 0 0	NR NR NR	0 0 1

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	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	0
TSCA	TP		NR	NR	NR	NR	NR	0
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	Ö
FTTS	TP		NR	NR	NR	NR	NR	ŏ
MLTS	TP		NR	NR	NR	NR	NR	Ö
COAL ASH DOE	TP		NR	NR	NR	NR	NR	Ö
COAL ASH EPA	0.500		0	0	0	NR	NR	Ö
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	Ö
RADINFO	TP		NR	NR	NR	NR	NR	Ö
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	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		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
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 HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		Ö	NR	NR	NR	NR	Ö
EDR Hist Cleaner	0.125		Ö	NR	NR	NR	NR	Ö
	- <del></del>		-		·			-

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR RECOVERED GO	VERNMENT ARCHIVE	<u>s</u>						
Exclusive Recovere	ed Govt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	1	0	1	0	0	2

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

WEST COAST OVER THE HORIZ (County), OR

Direction Distance

Elevation Site Database(s) EPA ID Number

DOD WEST COAST OVER THE HORIZON BACKSCATTER RADAR SYST
Region

DOD CUSA107915 N/A

**ECSI** 

S106880472

N/A

**EDR ID Number** 

< 1/8 1 ft.

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported

Name 1: West Coast Over the Horizon Backscatter Radar System

Name 2: Not reported Name 3: Not reported State: OR DOD Site: Yes Tile name: ORLAKE

1 CHRISTMAS VALLEY RADAR BASE

NNW WAGON TIRE RD & RADAR SITE RD (NE CORNER OF)

1/4-1/2 CHRISTMAS VALLEY, OR 97638

0.338 mi. 1785 ft.

Relative: ECSI: Lower Sta

 Lower
 State ID Number:
 4352

 Actual:
 Brown ID:
 0

 4303 ft.
 Study Area:
 False

 Region ID:
 1

 Legislatve ID:
 0

Investigation: No Further Action

FACA ID: 86731 Further Action: 0

Lat/Long (dms): 43 16 34.30 / -120 22 29.30

County Code: 19.00

Score Value:

Cerclis ID:

Township Coord:

Township Zone:

Range Coord:

Range Zone:

Section Coord:

Not reported
26.00

20.00

E

30

Qtr Section: Not reported Tax Lots: Not reported Size: Not reported NPL: False Orphan: False Updated By: **DCROUSE** Update Date: 02/02/2009 Created Date: 03/18/2005 Decode For RegionID: Eastern Region Decode For BrownID: Not reported Decode For Furtheract: Not reported No Further Action Decode For Investstat: Decode For Legislative: Not reported Alias Name: Christmas Valley Backscatter Site

Narrative:

NARR ID: 5746405 NARR Code: Contamination

Direction Distance

Elevation Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Created By: DCROUSE
Created Date: 03/18/2005
Updated By: DCROUSE
Updated Date: 08/02/2006
Decode for NarcdID: Contamination

NARR Comments: (3/18/05 DMC/SAS) Site added to database for tracking as a military

installation that is in the process of being decommissioned; ER/SAS

received a copy of an environmental assessment for the

over-the-horizon backscatter radar site. UST decommissioning in progress and site is also being evaluated for potential asbestos

issues by ER/Bend staff.

NARR ID: 5748354

NARR Code: Data Sources

Created By: DCROUSE

Created Date: 08/02/2006

Updated By: DCROUSE

Updated Date: 08/02/2006

Decode for NarcdID: Data Sources

NARR Comments: 1. Enivronmental Assessment (US military).

NARR ID: 5751392

NARR Code: General Site Description

Created By: GWISTAR
Created Date: 04/27/2009
Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: General Site Description

NARR Comments: The transmitter site, located near Christmas Valley, occupies land

that is managed by the Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management (BLM). A receiver station

is present near Tule Lake, California. In addition to the radar structure, there is a transmitter building, a vehicle maintenance shop, and an electric switching station associated with the sector 4 antenna (the northernmost sector). The other two sectors each have a

transmitter building and an electric switching station.

NARR ID: 5748353

NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/02/2006

Updated By: DCROUSE
Updated Date: 08/02/2006

Decode for NarcdID: Remedial Action

NARR Comments: (9/1/05 DMC/SAS) Site screening recommended.

NARR ID: 5751393

NARR Code: Site History
Created By: GWISTAR
Created Date: 04/27/2009

Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: Site History

NARR Comments: The OTH-B radar system was developed in the early 1970s to provide

all-altitude, long-range surveillance of aerial approaches to the United States. Two OTH-B radar systems were constructed, one system

each on the West and East Coasts. Each system included transmitter,

Direction Distance Elevation

tion Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing radar waves and return signals, enabling the system to detect and track targets that would otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles. Processed data was communicated from the receiver location to the operations site for correlation with known aircraft positions. The OTH-B radar system was built by General Electric beginning in 1986. The Air Force accepted control of the system in December 1990. In 1991 just months after being put into place, the West Coast site reduced its activities to caretaker status and it has remained in the status for the past 15 years.

Administrative Action:

Action ID: 9443

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/15/2008

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: NO FURTHER STATE ACTION REQUIRED

Further Action: 0

Comments: Not reported

Action ID: 9425

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: SITE EVALUATION Further Action: 0

Comments: Not reported

Action ID: 9437

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Listing Action Action Code Flag: False

Action: Listing Review completed

Further Action: 0

Comments: Not reported

Action ID: 9440

Region: Eastern Region Complete Date: 08/31/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Letter Agreement Further Action: 0

Comments: Not reported

Action ID: 9459

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: PRELIMINARY ASSESSMENT EQUIVALENT

Further Action: High-Medium Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Not reported Category: Administrative Action

Action Code Flag: False

Action: Site added to database Further Action: Not reported Comments: Not reported

Action ID: 9508

Region: Eastern Region
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)

Further Action: 0

Comments: Not reported

Operations:

Operation Id: 135052 Operation Status: Inactive

Common Name: Christmas Valley Radar Base Yrs of Operation: 1990 to present (circa).

Map ID MAP FINDINGS Direction

Distance

Elevation Site

Database(s)

EDR ID Number EPA ID Number

CHRISTMAS VALLEY RADAR BASE (Continued)

Comments: Military radar base.

Updated Date: 03/18/2005
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 198555
SIC Code: 9711
Created By: DCROUSE
Created Date: 03/18/2005

S106880472

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SILVER LAKE	1021621200	CHRISTMAS VALLEY RANCH SUPPLY*	CHRISTMAS VALLEY RD	97638	

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: 04/11/2019 Soul Date Data Arrived at EDR: 04/18/2019 Tele

Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 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: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 39

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 04/05/2019 Next Scheduled EDR Contact: 07/15/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

### Federal institutional controls / engineering controls registries

#### LUCIS: Land Use Control Information System

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

Date of Government Version: 02/22/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 41

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/26/2019 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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019 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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019

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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 36

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

### State- and tribal - equivalent CERCLIS

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-6629 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 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: 01/14/2019 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 503-229-6299 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019
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: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/11/2018

Number of Days to Update: 26

Source: Department of Environmental Quality

Telephone: 503-229-5790 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

#### State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage 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: 04/25/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Varies

UST: Underground Storage Tank Database

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 01/17/2019 Date Data Arrived at EDR: 01/23/2019 Date Made Active in Reports: 03/18/2019

Number of Days to Update: 54

Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

Data Noicase Frequency. Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 11/07/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

### State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Varies

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: 12/31/2018 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: DEQ

Telephone: 503-229-5256 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

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: 11/01/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6801 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 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: 12/17/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 24

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/19/2019

Next Scheduled EDR Contact: 07/01/2019 Data Release Frequency: Semi-Annually

### Local Lists of Landfill / Solid Waste Disposal Sites

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 83

Source: Department of Environmental Quality

Telephone: 503-229-5353 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Quarterly

HIST LF: Old Closed SW Disposal Sites

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

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019
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: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 04/23/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

### Local Lists of Hazardous waste / Contaminated Sites

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 February, 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

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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019 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: 10/29/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

CDL: Uninhabitable Drug Lab Properties

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.

Date of Government Version: 01/28/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Consumer & Business Services

Telephone: 503-378-4133 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 49

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

SPILLS: Spill Data

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 01/04/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 04/01/2019

Next Scheduled EDR Contact: 07/15/2019 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: 09/05/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2006 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### Other Ascertainable Records

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 04/03/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019

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: 05/13/2019

Next Scheduled EDR Contact: 08/26/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/07/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 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: 05/06/2019

Next Scheduled EDR Contact: 08/19/2019 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: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019 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: 03/22/2019

Next Scheduled EDR Contact: 07/01/2019 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: 02/20/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/24/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 18

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Annually

#### RMP: Risk Management Plans

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

Date of Government Version: 02/01/2019 Date Data Arrived at EDR: 02/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019 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 Parties

Date of Government Version: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2019 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/10/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 04/08/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

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

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

Agency on a quarterly basis.

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

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: 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

MLTS: Material Licensing Tracking System

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

Date of Government Version: 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: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019 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 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 03/07/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019

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: 04/02/2019 Date Data Arrived at EDR: 04/02/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008

Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018 Date Data Arrived at EDR: 01/29/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 04/30/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 02/11/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/05/2019

Next Scheduled EDR Contact: 07/22/2019

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: 02/13/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/11/2019

Next Scheduled EDR Contact: 07/22/2019 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: 05/02/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 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: 02/22/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

Number of Days to Update: 36

Source: American Journal of Public Health Telephone: 703-305-6451

Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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

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

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

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

> Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 02/27/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

Date of Government Version: 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019

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: 03/27/2019 Date Data Arrived at EDR: 03/28/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 34

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/21/2019

Next Scheduled EDR Contact: 06/24/2019 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: 02/15/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 03/15/2019

Number of Days to Update: 10

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 03/03/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 04/09/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

#### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019 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 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 02/21/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 39

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 12/28/2018 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/19/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-6459 Last EDR Contact: 04/01/2019

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: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/05/2018 Date Data Arrived at EDR: 11/07/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 33

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Annually

ENF: Enforcement Action Listing Enforcement actions

> Date of Government Version: 12/17/2018 Date Data Arrived at EDR: 12/19/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 63

Source: Department of Environmental Quality

Telephone: 503-229-5696 Last EDR Contact: 03/20/2019

Next Scheduled EDR Contact: 07/01/2019 Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing Financial assurance information for hazardous waste facilities.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 64

Source: Department of Environmental Quality

Telephone: 541-633-2011 Last EDR Contact: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/15/2018 Date Data Arrived at EDR: 11/16/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 24

Source: Department of Environmental Quality

Telephone: 503-229-5521 Last EDR Contact: 05/17/2019

Next Scheduled EDR Contact: 09/02/2019 Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey

Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: State Fire Marshal's Office

Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 01/29/2019

Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Environmental Quality

Telephone: 503-229-5657 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

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: 12/21/2018 Date Data Arrived at EDR: 12/27/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 55

Source: Department of Environmental Quality

Telephone: 503-229-5945 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

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 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

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

Source: Department of Environmental Quality

## 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: 01/01/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/14/2019

Number of Days to Update: 15

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

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: 03/11/2019

Next Scheduled EDR Contact: 06/24/2019 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 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**

CHRISTMAS VALLEY CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

#### **TARGET PROPERTY COORDINATES**

Latitude (North): 43.26224 - 43° 15' 44.06" Longitude (West): 120.367504 - 120° 22' 3.01"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 713666.4 UTM Y (Meters): 4793086.5

Elevation: 4306 ft. above sea level

## **USGS TOPOGRAPHIC MAP**

Target Property Map: 6070073 SAND ROCK, OR

Version Date: 2014

Southeast Map: 6069999 BUFFALO WELL, OR

Version Date: 2014

Southwest Map: 6070091 VAUGHN WELL, OR

Version Date: 2014

Northwest Map: 6070105 FOSSIL LAKE, OR

Version Date: 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:

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

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

## **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).

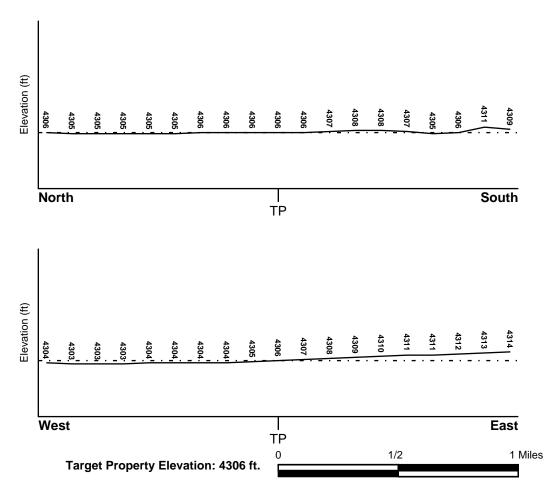
## **TOPOGRAPHIC INFORMATION**

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

Not Reported

Additional Panels in search area: FEMA Source Type

Not Reported

**NATIONAL WETLAND INVENTORY** 

NWI Quad at Target Property Data Coverage

NOT AVAILABLE

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.

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

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 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 Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (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: FLAGSTAFF

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic

conductivity, wet state high in profile, etc. Depth to water table is

1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 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	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90		
2	3 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 8.50		
3	14 inches	60 inches	cemented	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: sand

loamy sand sandy loam

Surficial Soil Types: sand

loamy sand sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

unweathered bedrock

silt loam

weathered bedrock

## **LOCAL / REGIONAL WATER AGENCY RECORDS**

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

## WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION MAP ID WELL ID FROM TP

No PWS System Found

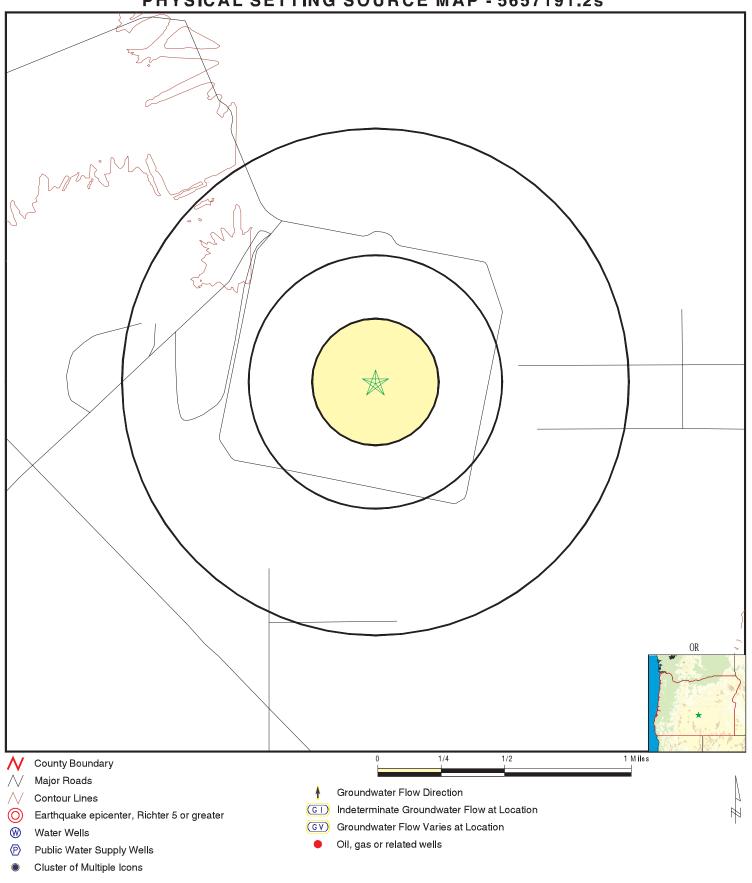
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 5657191.2s



SITE NAME: Christmas Valley Christmas Valley, OR Silver Lake OR 97638 ADDRESS: LAT/LONG: 43.26224 / 120.367504

CLIENT: AECOM CONTACT: Brittany Kirchmann

INQUIRY#: 5657191.2s DATE: May 21, 2019 4:29 pm

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

# AREA RADON INFORMATION

Federal EPA Radon Zone for LAKE 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

#### **HYDROLOGIC INFORMATION**

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

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

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Water 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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Christmas Valley Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657192.3

May 21, 2019

# **Certified Sanborn® Map Report**



# **Certified Sanborn® Map Report**

05/21/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657192.3 Contact: Brittany Kirchmann



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

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

## Certified Sanborn Results:

Certification # BA9E-41A0-B7D5

PO# NA

Project Christmas Valley 2

#### **UNMAPPED PROPERTY**

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



Sanborn® Library search results

Certification #: BA9E-41A0-B7D5

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

✓ Library of Congress

University Publications of America

**✓** EDR Private Collection

The Sanborn Library LLC Since 1866™

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page 2

# **Christmas Valley**

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657192.5

May 22, 2019

# The EDR Aerial Photo Decade Package



# **EDR Aerial Photo Decade Package**

05/22/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657192.5 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>	<u>Details</u>	Source
2016	1"=1000'	Flight Year: 2016	USDA/NAIP
2012	1"=1000'	Flight Year: 2012	USDA/NAIP
2009	1"=1000'	Flight Year: 2009	USDA/NAIP
2005	1"=1000'	Flight Year: 2005	USDA/NAIP
1994	1"=1000'	Flight Date: July 01, 1994	USGS
1982	1"=1000'	Flight Date: August 12, 1982	USGS
1976	1"=1000'	Flight Date: July 13, 1976	USGS
1974	1"=1000'	Flight Date: July 31, 1974	USGS
1953	1"=1000'	Flight Date: July 25, 1953	USGS

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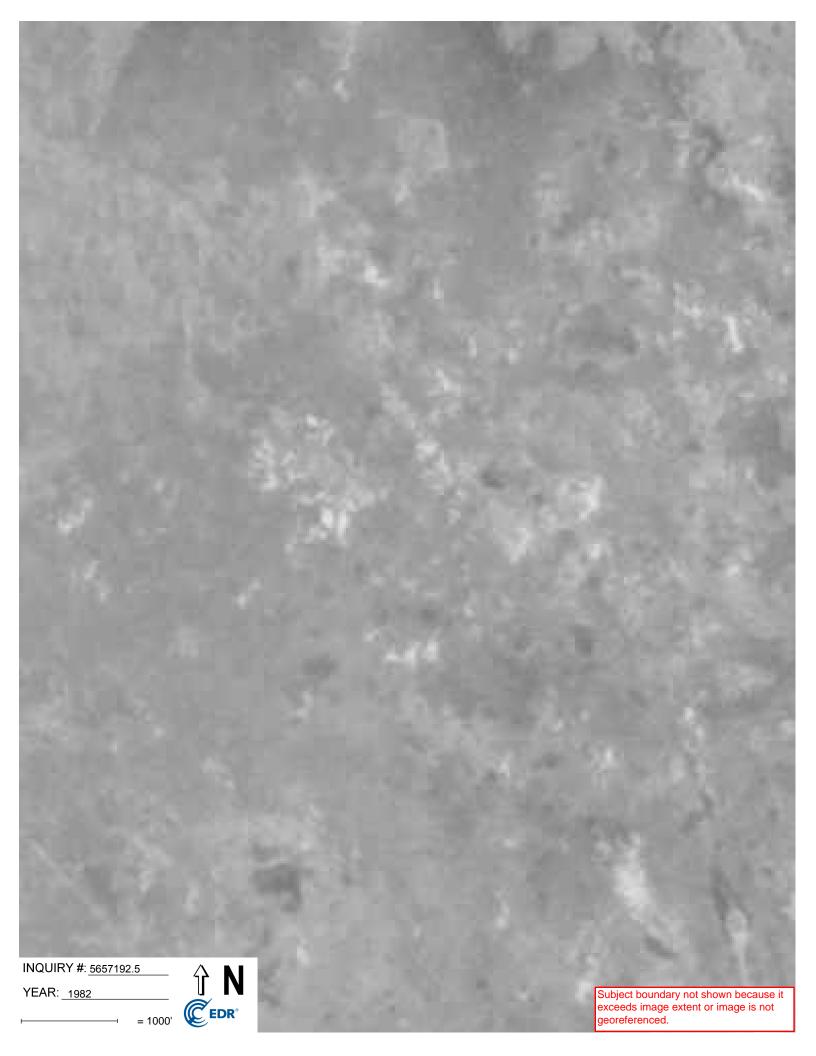


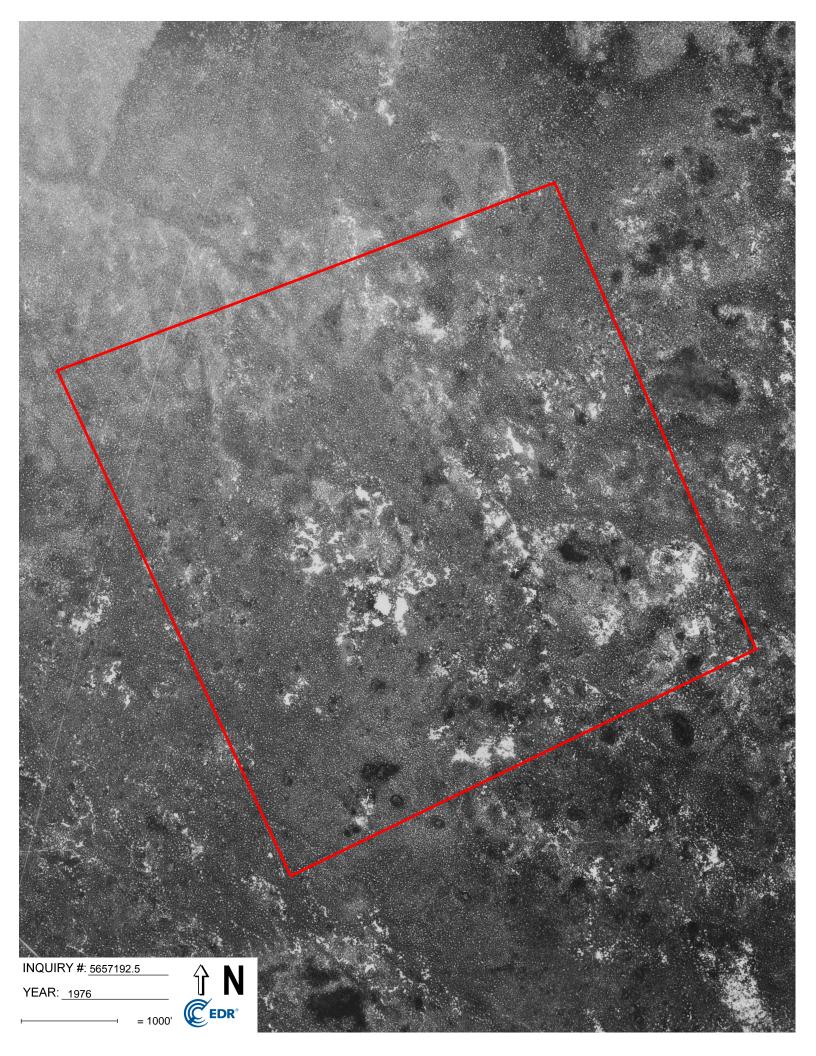


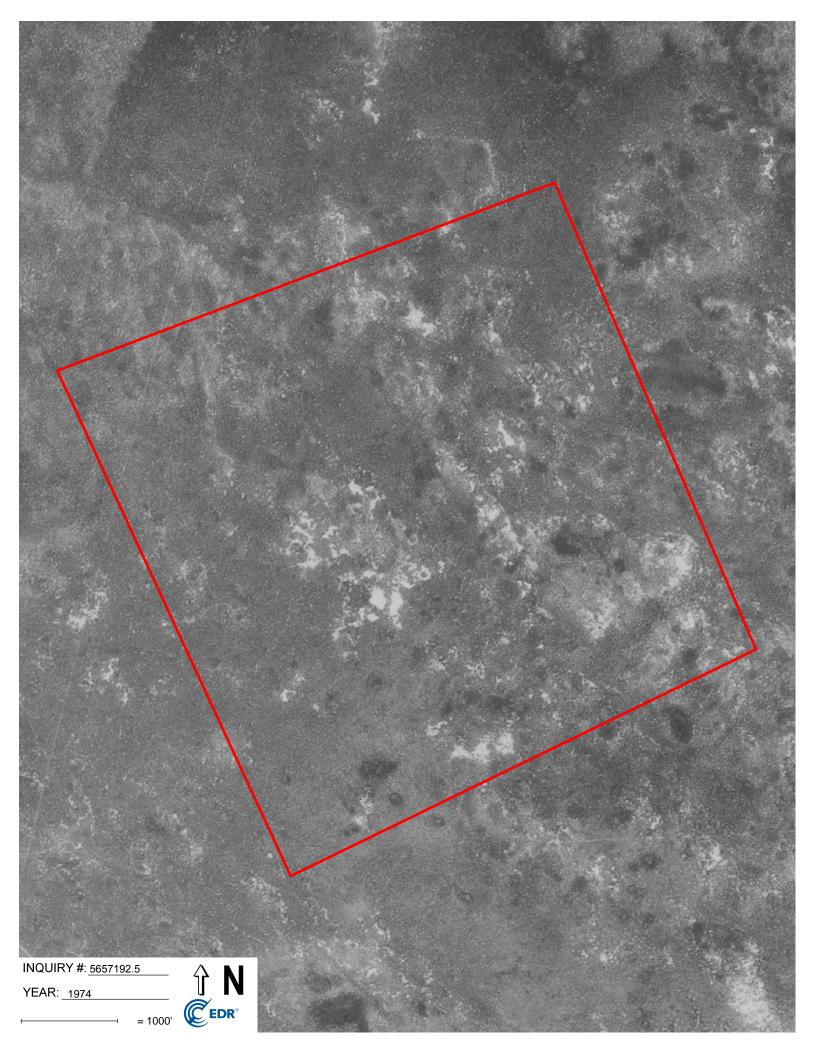


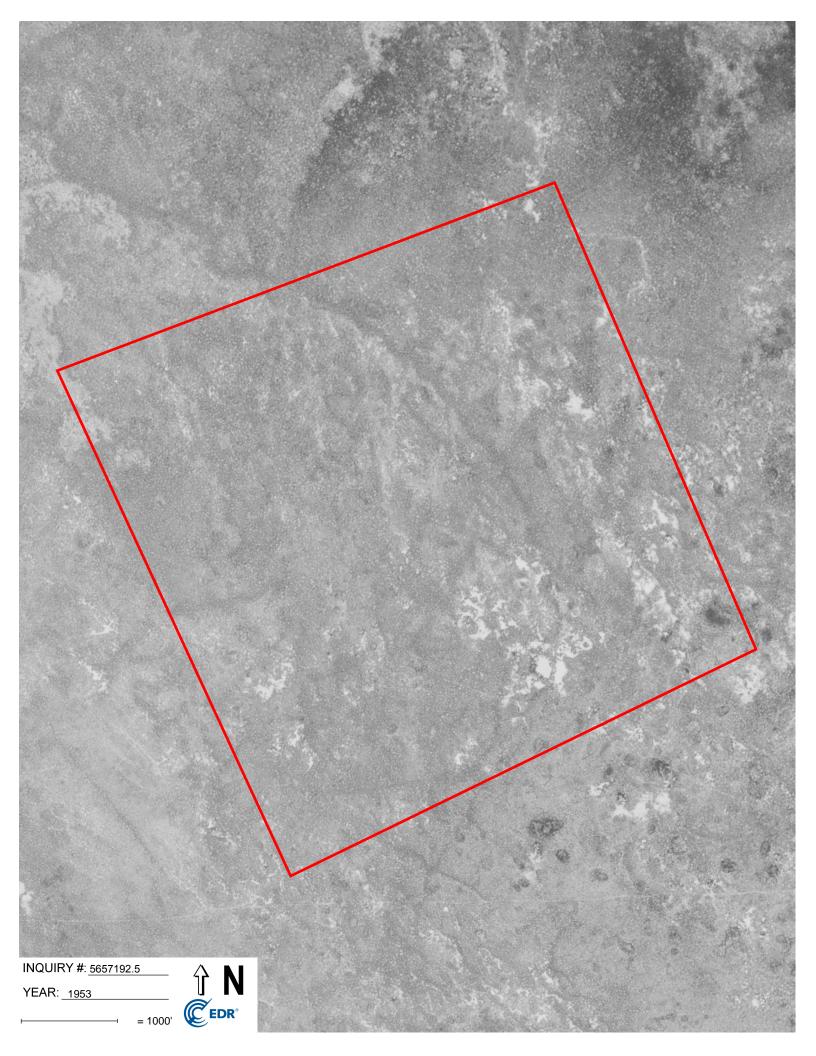












**Christmas Valley** 

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657192.2s

May 21, 2019

# The EDR Radius Map™ Report with GeoCheck®



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

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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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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**

CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

### **COORDINATES**

Latitude (North): 43.2737070 - 43° 16' 25.34" Longitude (West): 120.3875920 - 120° 23' 15.33"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 711996.1 UTM Y (Meters): 4794309.0

Elevation: 4300 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6070105 FOSSIL LAKE, OR

Version Date: 2014

Northeast Map: 6070073 SAND ROCK, OR

Version Date: 2014

Southeast Map: 6069999 BUFFALO WELL, OR

Version Date: 2014

Southwest Map: 6070091 VAUGHN WELL, OR

Version Date: 2014

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20140906 Source: USDA

# MAPPED SITES SUMMARY

Target Property Address: CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
Reg	WEST COAST OVER THE		DOD	Same	1 ft.
1	CHRISTMAS VALLEY RAD	WAGON TIRE RD & RADA	ECSI	Higher	751, 0.142, ENE

## 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 Proposed NPL NPL LIENS	Proposed National Priority List Sites

#### Federal Delisted NPL site list

#### Federal CERCLIS list

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

### Federal CERCLIS NFRAP site list

SEMS-ARCHIVE	Superfund Enter	prise Management	System Archive

### Federal RCRA CORRACTS facilities list

CORRACTS Correct	ctive	Action	Report
------------------	-------	--------	--------

### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF RC	CRA - 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 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 Storage Tank Database INDIAN LUST..... Leaking Underground 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 ..... Voluntary Cleanup Program Sites INDIAN VCP..... Voluntary Cleanup Priority Listing 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	
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

#### Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN...... Columbia Slough

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL...... Uninhabitable Drug Lab Properties US CDL...... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spill Database OR HAZMAT..... Hazmat/Incidents

SPILLS 90 data from FirstSearch

Other Ascertainable Records

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

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION........... 2020 Corrective Action Program List

SSTS..... Section 7 Tracking Systems ROD...... Records Of Decision RMP..... Risk Management Plans

RAATS...... RCRA Administrative Action Tracking System

PRP...... Potentially Responsible Parties PADS..... PCB Activity Database System

ICIS\_\_\_\_\_\_Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

MLTS..... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS...... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File ABANDONED MINES..... Abandoned Mines

FINDS......Facility Index System/Facility Registry System ECHO..... Enforcement & Compliance History Information

DOCKET HWC..... Hazardous Waste Compliance Docket Listing

UXO...... Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

AIRS....... Oregon Title V Facility Listing COAL ASH...... Coal Ash Disposal Sites Listing

DRYCLEANERS\_\_\_\_\_\_ Drycleaning Facilities
Enforcement Action Listing

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 identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

### STANDARD ENVIRONMENTAL RECORDS

## State- and tribal - equivalent CERCLIS

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 ECSI

site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTMAS VALLEY RAD Investigation: No Further Action State ID Number: 4352	WAGON TIRE RD & RADA	ENE 1/8 - 1/4 (0.142 mi.)	1	8

### ADDITIONAL ENVIRONMENTAL RECORDS

### Other Ascertainable Records

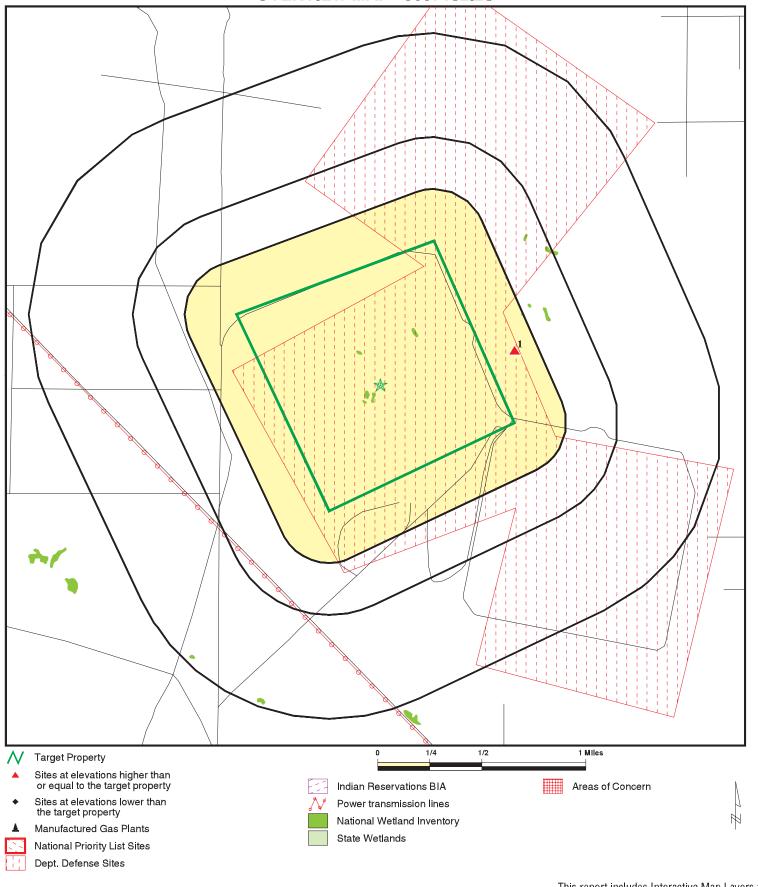
DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
WEST COAST OVER THE		0 - 1/8 (0.000 mi.)	0	8

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.						
Site Name	Database(s)					
CHRISTMAS VALLEY RANCH SUPPLY*	EDR Hist Auto					

# **OVERVIEW MAP - 5657192.2S**

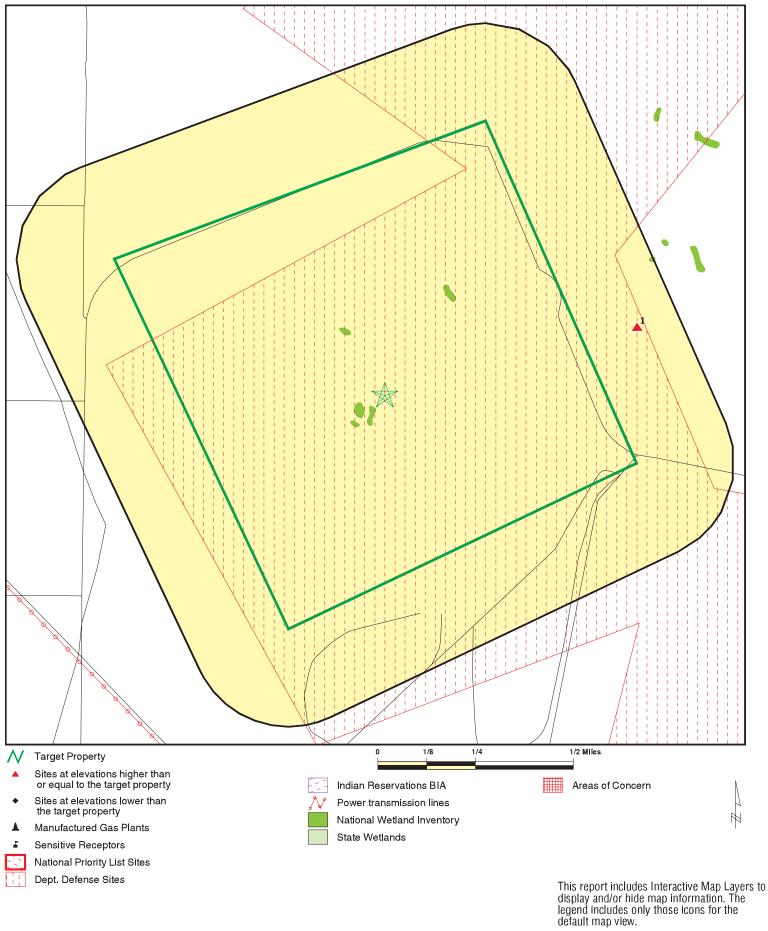


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Christmas Valley
ADDRESS: Christmas Valley, OR
Silver Lake OR 97638
LAT/LONG: 43.273707 / 120.387592

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5657192.2s
DATE: May 21, 2019 4:27 pm

# **DETAIL MAP - 5657192.2S**



SITE NAME: Christmas Valley
ADDRESS: Christmas Valley, OR
Silver Lake OR 97638
LAT/LONG: 43.273707 / 120.387592

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5657192.2s
DATE: May 21, 2019 4:29 pm

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 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	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 li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	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	3						
ECSI CRL	1.000 1.000		0 0	1 0	0 0	0 0	NR NR	1 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 l	ists						
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	ed storage tan	ık lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	<u>1/4 - 1/2</u>	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 institution control / engineering con		;						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	s						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
HIST LF SWRCY INDIAN ODI DEBRIS REGION 9 ODI 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	0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
AOCONCERN US HIST CDL CDL US CDL	1.000 TP TP TP		0 NR NR NR	0 NR NR NR	0 NR NR NR	0 NR NR NR	NR NR NR NR	0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repor	ts						
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 Reco	ords							
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000		0 0 1	0 0 0	NR 0 0	NR 0 0	NR NR NR	0 0 1

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	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	0
TSCA	TP		NR	NR	NR	NR	NR	0
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	Ö
FTTS	TP		NR	NR	NR	NR	NR	ŏ
MLTS	TP		NR	NR	NR	NR	NR	Ö
COAL ASH DOE	TP		NR	NR	NR	NR	NR	Ö
COAL ASH EPA	0.500		0	0	0	NR	NR	Ö
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	Ö
RADINFO	TP		NR	NR	NR	NR	NR	Ö
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	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		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
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	EDR HIGH RISK HISTORICAL RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		Ö	NR	NR	NR	NR	Ö
EDR Hist Cleaner	0.125		Ö	NR	NR	NR	NR	Ö
	- <del></del>		-		·			-

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR RECOVERED GO	VERNMENT ARCHIVE	<u>ES</u>						
Exclusive Recovere	ed Govt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	1	1	0	0	0	2

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Elevation Site Database(s) EPA ID Number

DOD WEST COAST OVER THE HORIZON BACKSCATTER RADAR SYST DOD CUSA107915
Region N/A

WEST COAST OVER THE HORIZ (County), OR

< 1/8 1 ft.

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported

Name 1: West Coast Over the Horizon Backscatter Radar System

Name 2: Not reported Name 3: Not reported State: OR DOD Site: Yes

Tile name: ORLAKE

1 CHRISTMAS VALLEY RADAR BASE ECSI S106880472
ENE WAGON TIRE RD & RADAR SITE RD (NE CORNER OF) N/A

1/8-1/4 CHRISTMAS VALLEY, OR 97638

0.142 mi. 751 ft.

Relative: ECSI:

 Higher
 State ID Number:
 4352

 Actual:
 Brown ID:
 0

 4303 ft.
 Study Area:
 False

 Region ID:
 1

 Legislatve ID:
 0

Investigation: No Further Action

FACA ID: 86731 Further Action: 0

Lat/Long (dms): 43 16 34.30 / -120 22 29.30

County Code: 19.00

Score Value:

Cerclis ID:

Township Coord:

Township Zone:

Range Coord:

Range Zone:

Section Coord:

Not reported
26.00

20.00

E

30

Qtr Section: Not reported Tax Lots: Not reported Not reported Size: NPL: False Orphan: False Updated By: **DCROUSE** Update Date: 02/02/2009 Created Date: 03/18/2005 Decode For RegionID: Eastern Region Decode For BrownID: Not reported Decode For Furtheract: Not reported No Further Action Decode For Investstat: Decode For Legislative: Not reported Alias Name: Christmas Valley Backscatter Site

Narrative:

NARR ID: 5746405 NARR Code: Contamination **EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Created By: DCROUSE
Created Date: 03/18/2005
Updated By: DCROUSE
Updated Date: 08/02/2006
Decode for NarcdID: Contamination

NARR Comments: (3/18/05 DMC/SAS) Site added to database for tracking as a military

installation that is in the process of being decommissioned; ER/SAS

received a copy of an environmental assessment for the

over-the-horizon backscatter radar site. UST decommissioning in progress and site is also being evaluated for potential asbestos

issues by ER/Bend staff.

NARR ID: 5748354

NARR Code: Data Sources

Created By: DCROUSE

Created Date: 08/02/2006

Updated By: DCROUSE

Updated Date: 08/02/2006

Decode for NarcdID: Data Sources

NARR Comments: 1. Enivronmental Assessment (US military).

NARR ID: 5751392

NARR Code: General Site Description

Created By: GWISTAR
Created Date: 04/27/2009
Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: General Site Description

NARR Comments: The transmitter site, located near Christmas Valley, occupies land

that is managed by the Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management (BLM). A receiver station

is present near Tule Lake, California. In addition to the radar structure, there is a transmitter building, a vehicle maintenance shop, and an electric switching station associated with the sector 4 antenna (the northernmost sector). The other two sectors each have a

transmitter building and an electric switching station.

NARR ID: 5748353

NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/02/2006

Updated By: DCROUSE
Updated Date: 08/02/2006

Decode for NarcdID: Remedial Action

NARR Comments: (9/1/05 DMC/SAS) Site screening recommended.

NARR ID: 5751393

NARR Code: Site History
Created By: GWISTAR
Created Date: 04/27/2009

Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: Site History

NARR Comments: The OTH-B radar system was developed in the early 1970s to provide

all-altitude, long-range surveillance of aerial approaches to the United States. Two OTH-B radar systems were constructed, one system

each on the West and East Coasts. Each system included transmitter,

Direction Distance Elevation

tion Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing radar waves and return signals, enabling the system to detect and track targets that would otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles. Processed data was communicated from the receiver location to the operations site for correlation with known aircraft positions. The OTH-B radar system was built by General Electric beginning in 1986. The Air Force accepted control of the system in December 1990. In 1991 just months after being put into place, the West Coast site reduced its activities to caretaker status and it has remained in the status for the past 15 years.

Administrative Action:

Action ID: 9443

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/15/2008

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: NO FURTHER STATE ACTION REQUIRED

Further Action: 0

Comments: Not reported

Action ID: 9425

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: SITE EVALUATION Further Action: 0

Comments: Not reported

Action ID: 9437

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Listing Action Action Code Flag: False

Action: Listing Review completed

Further Action: 0

Comments: Not reported

Action ID: 9440

Region: Eastern Region Complete Date: 08/31/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Rank Value: Not reported Cleanup Flag: False Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Letter Agreement Further Action: 0

Comments: Not reported

Action ID: 9459

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: PRELIMINARY ASSESSMENT EQUIVALENT

Further Action: High-Medium Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Not reported Category: Administrative Action

Action Code Flag: False

Action: Site added to database Further Action: Not reported Comments: Not reported

Action ID: 9508

Region: Eastern Region
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)

Further Action: 0

Comments: Not reported

Operations:

Operation Id: 135052 Operation Status: Inactive

Common Name: Christmas Valley Radar Base Yrs of Operation: 1990 to present (circa).

Map ID MAP FINDINGS Direction

Distance

Elevation Site Database(s)

EDR ID Number EPA ID Number

## CHRISTMAS VALLEY RADAR BASE (Continued)

Comments: Military radar base.

Updated Date: 03/18/2005
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 198555
SIC Code: 9711
Created By: DCROUSE
Created Date: 03/18/2005

S106880472

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SILVER LAKE	1021621200	CHRISTMAS VALLEY RANCH SUPPLY*	CHRISTMAS VALLEY RD	97638	EDR Hist Auto

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: 04/11/2019 Source: EPA
Date Data Arrived at EDR: 04/18/2019 Telephone: N/A

Date Made Active in Reports: 05/14/2019 Last EDR Contact: 04/18/2019

Number of Days to Update: 26 Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

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.

Source: EPA

Telephone: N/A

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019

Date Made Active in Reports: 05/14/2019 Last EDR Contact: 04/18/2019

Number of Days to Update: 26 Next Scheduled EDR Contact: 07/15/2019

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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 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: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 39

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 04/05/2019 Next Scheduled EDR Contact: 07/15/2019

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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency Telephone: (206) 553-1200

Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

#### Federal institutional controls / engineering controls registries

#### LUCIS: Land Use Control Information System

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

Date of Government Version: 02/22/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 41

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019 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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019

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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 36

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

#### State- and tribal - equivalent CERCLIS

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-6629 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 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: 01/14/2019 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 503-229-6299 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019 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: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/11/2018

Number of Days to Update: 26

Source: Department of Environmental Quality

Telephone: 503-229-5790 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

#### State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage 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: 04/25/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Varies

UST: Underground Storage Tank Database

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 01/17/2019 Date Data Arrived at EDR: 01/23/2019 Date Made Active in Reports: 03/18/2019

Number of Days to Update: 54

Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 11/07/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

#### State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Varies

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: 12/31/2018 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: DEQ

Telephone: 503-229-5256 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

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: 11/01/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6801 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 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: 12/17/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 24

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/19/2019

Next Scheduled EDR Contact: 07/01/2019 Data Release Frequency: Semi-Annually

#### Local Lists of Landfill / Solid Waste Disposal Sites

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 83

Source: Department of Environmental Quality

Telephone: 503-229-5353 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Quarterly

HIST LF: Old Closed SW Disposal Sites

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

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside

County and northern Imperial County, California.

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

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019 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: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 04/23/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

### Local Lists of Hazardous waste / Contaminated Sites

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 February, 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

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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019 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: 10/29/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

CDL: Uninhabitable Drug Lab Properties

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.

Date of Government Version: 01/28/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Consumer & Business Services

Telephone: 503-378-4133 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 49

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

### SPILLS: Spill Data

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 01/04/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 04/01/2019

Next Scheduled EDR Contact: 07/15/2019 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: 09/05/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2006 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### Other Ascertainable Records

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 04/03/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019

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: 05/13/2019

Next Scheduled EDR Contact: 08/26/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/07/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 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: 05/06/2019

Next Scheduled EDR Contact: 08/19/2019 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: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019

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: 03/22/2019

Next Scheduled EDR Contact: 07/01/2019 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: 02/20/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/24/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 18

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Annually

#### RMP: Risk Management Plans

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

Date of Government Version: 02/01/2019 Date Data Arrived at EDR: 02/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019
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 Parties

Date of Government Version: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2019 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/10/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 04/08/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

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

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

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

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: 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

MLTS: Material Licensing Tracking System

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

Date of Government Version: 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: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019 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 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 03/07/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019

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: 04/02/2019 Date Data Arrived at EDR: 04/02/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008

Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018 Date Data Arrived at EDR: 01/29/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 04/30/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 02/11/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/05/2019

Next Scheduled EDR Contact: 07/22/2019

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: 02/13/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/11/2019

Next Scheduled EDR Contact: 07/22/2019 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: 05/02/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 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: 02/22/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

Number of Days to Update: 36

Source: American Journal of Public Health Telephone: 703-305-6451

Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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

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

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

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

> Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 02/27/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

Date of Government Version: 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019

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: 03/27/2019 Date Data Arrived at EDR: 03/28/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 34

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/21/2019

Next Scheduled EDR Contact: 06/24/2019 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: 02/15/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 03/15/2019

Number of Days to Update: 10

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 03/03/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 04/09/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

#### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019 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 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 02/21/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 39

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 12/28/2018 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/19/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-6459 Last EDR Contact: 04/01/2019

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: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/05/2018 Date Data Arrived at EDR: 11/07/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 33

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Annually

ENF: Enforcement Action Listing Enforcement actions

> Date of Government Version: 12/17/2018 Date Data Arrived at EDR: 12/19/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 63

Source: Department of Environmental Quality

Telephone: 503-229-5696 Last EDR Contact: 03/20/2019

Next Scheduled EDR Contact: 07/01/2019 Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing Financial assurance information for hazardous waste facilities.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 64

Source: Department of Environmental Quality

Telephone: 541-633-2011 Last EDR Contact: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/15/2018 Date Data Arrived at EDR: 11/16/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 24

Source: Department of Environmental Quality

Telephone: 503-229-5521 Last EDR Contact: 05/17/2019

Next Scheduled EDR Contact: 09/02/2019 Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey

Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: State Fire Marshal's Office

Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Environmental Quality

Telephone: 503-229-5657 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

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: 12/21/2018 Date Data Arrived at EDR: 12/27/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 55

Source: Department of Environmental Quality

Telephone: 503-229-5945 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

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 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: 01/01/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/14/2019

Number of Days to Update: 15

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

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: 03/11/2019

Next Scheduled EDR Contact: 06/24/2019 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 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**

CHRISTMAS VALLEY CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

#### **TARGET PROPERTY COORDINATES**

Latitude (North): 43.273707 - 43° 16' 25.35" Longitude (West): 120.387592 - 120° 23' 15.33"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 711996.1 UTM Y (Meters): 4794309.0

Elevation: 4300 ft. above sea level

## **USGS TOPOGRAPHIC MAP**

Target Property Map: 6070105 FOSSIL LAKE, OR

Version Date: 2014

Northeast Map: 6070073 SAND ROCK, OR

Version Date: 2014

Southeast Map: 6069999 BUFFALO WELL, OR

Version Date: 2014

Southwest Map: 6070091 VAUGHN WELL, OR

Version Date: 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:

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

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

## **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).

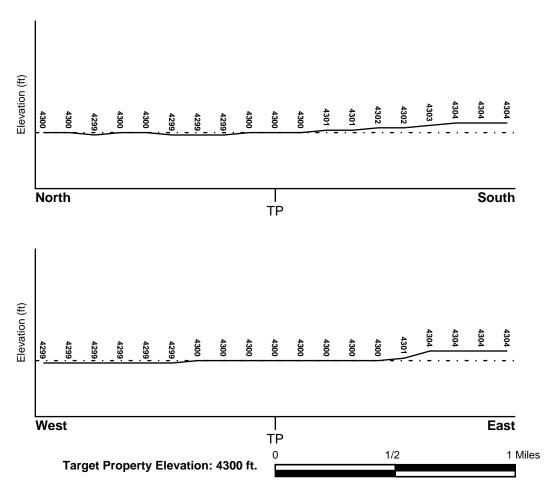
## **TOPOGRAPHIC INFORMATION**

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 NNE

#### **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

Not Reported

Additional Panels in search area: FEMA Source Type

Not Reported

**NATIONAL WETLAND INVENTORY** 

NWI Quad at Target Property Data Coverage

NOT AVAILABLE 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.

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

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 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 Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (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: FLAGSTAFF

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic

conductivity, wet state high in profile, etc. Depth to water table is

1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

Soil Layer Information									
	Boundary			Classification					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)		
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90		
2	3 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 8.50		
3	14 inches	60 inches	cemented	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: sand

loamy sand sandy loam

Surficial Soil Types: sand

loamy sand sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

unweathered bedrock

silt loam

weathered bedrock

## **LOCAL / REGIONAL WATER AGENCY RECORDS**

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

## WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

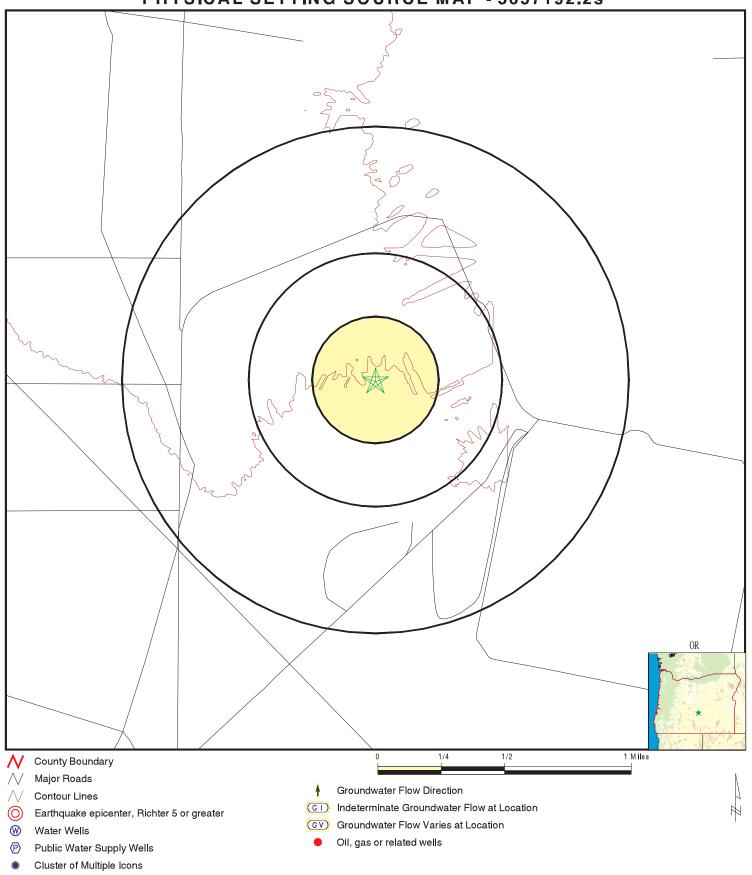
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 5657192.2s



SITE NAME: Christmas Valley Christmas Valley, OR Silver Lake OR 97638 ADDRESS: LAT/LONG: 43.273707 / 120.387592

CLIENT: AECOM CONTACT: Brittany Kirchmann

INQUIRY#: 5657192.2s DATE: May 21, 2019 4:29 pm

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

# AREA RADON INFORMATION

Federal EPA Radon Zone for LAKE 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

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

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Water 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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Christmas Valley Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657193.3

May 21, 2019

# **Certified Sanborn® Map Report**



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

# **Certified Sanborn® Map Report**

05/21/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657193.3 Contact: Brittany Kirchmann



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

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

#### Certified Sanborn Results:

Certification # 398D-40D2-8A26

PO# NA

Project Christmas Valley 3

#### **UNMAPPED PROPERTY**

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



Sanborn® Library search results

Certification #: 398D-40D2-8A26

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

✓ Library of Congress

✓ University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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page 2

# **Christmas Valley**

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657193.5

May 22, 2019

# The EDR Aerial Photo Decade Package



# **EDR Aerial Photo Decade Package**

05/22/19

Site Name: Client Name:

Christmas Valley AECOM

Christmas Valley, OR 12120 Shamrock Plaza Silver Lake, OR 97638 Omaha, NE 68154

EDR Inquiry # 5657193.5 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>	<u>Details</u>	Source
2016	1"=1000'	Flight Year: 2016	USDA/NAIP
2012	1"=1000'	Flight Year: 2012	USDA/NAIP
2009	1"=1000'	Flight Year: 2009	USDA/NAIP
2005	1"=1000'	Flight Year: 2005	USDA/NAIP
1994	1"=1000'	Flight Date: July 01, 1994	USGS
1982	1"=1000'	Flight Date: July 23, 1982	USGS
1976	1"=1000'	Flight Date: July 13, 1976	USGS
1974	1"=1000'	Flight Date: July 31, 1974	USGS

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INQUIRY #: 5657193.5 YEAR: 1982 Subject boundary not shown because it exceeds image extent or image is not georeferenced. = 1000'

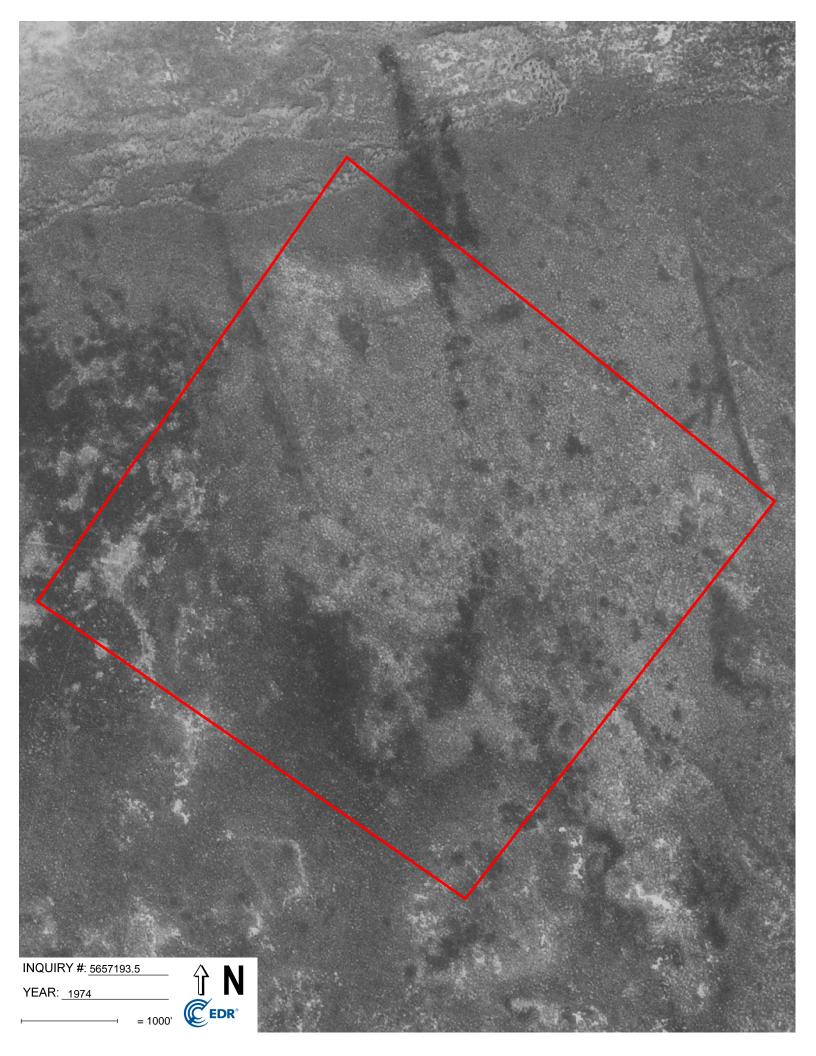
Ca 613 SAg 69 f=88,54

1-162

GS-SWJP

INQUIRY #: 5657193.5

YEAR: 1976



**Christmas Valley** 

Christmas Valley, OR Silver Lake, OR 97638

Inquiry Number: 5657193.2s

May 21, 2019

# The EDR Radius Map™ Report with GeoCheck®



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

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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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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**

CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

#### **COORDINATES**

Latitude (North): 43.2937820 - 43° 17' 37.61" Longitude (West): 120.3826530 - 120° 22' 57.55"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 712327.0 UTM Y (Meters): 4796551.0

Elevation: 4302 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6070105 FOSSIL LAKE, OR

Version Date: 2014

East Map: 6070073 SAND ROCK, OR

Version Date: 2014

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20140906 Source: USDA

### MAPPED SITES SUMMARY

Target Property Address: CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	WEST COAST OVER THE		DOD	Same	1 ft.
1	CHRISTMAS VALLEY RAD	WAGON TIRE RD & RADA	ECSI	Higher	2729. 0.517. SSE

#### 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	
NIDI				

#### 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 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 Storage Tank Database INDIAN LUST..... Leaking Underground 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 ...... Voluntary Cleanup Program Sites INDIAN VCP..... Voluntary Cleanup Priority Listing 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
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

#### Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN...... Columbia Slough

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL...... Uninhabitable Drug Lab Properties US CDL...... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS......Spill Database OR HAZMAT..... Hazmat/Incidents

SPILLS 90 data from FirstSearch

Other Ascertainable Records

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

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION........... 2020 Corrective Action Program List

SSTS..... Section 7 Tracking Systems ROD...... Records Of Decision RMP..... Risk Management Plans

RAATS...... RCRA Administrative Action Tracking System

PRP...... Potentially Responsible Parties PADS..... PCB Activity Database System

ICIS\_\_\_\_\_\_Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

MLTS..... Material Licensing Tracking System COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS...... Incident and Accident Data

CONSENT..... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File ABANDONED MINES..... Abandoned Mines

FINDS......Facility Index System/Facility Registry System ECHO..... Enforcement & Compliance History Information

DOCKET HWC..... Hazardous Waste Compliance Docket Listing

UXO...... Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

AIRS....... Oregon Title V Facility Listing COAL ASH...... Coal Ash Disposal Sites Listing

DRYCLEANERS\_\_\_\_\_\_ Drycleaning Facilities
Enforcement Action Listing

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 Hist Auto..... EDR Exclusive Historical Auto Stations
EDR Hist Cleaner... EDR Exclusive Historical Cleaners

#### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

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

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

### STANDARD ENVIRONMENTAL RECORDS

### State- and tribal - equivalent CERCLIS

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 ECSI

site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHRISTMAS VALLEY RAD Investigation: No Further Action State ID Number: 4352	WAGON TIRE RD & RADA	SSE 1/2 - 1 (0.517 mi.)	1	8

### ADDITIONAL ENVIRONMENTAL RECORDS

#### Other Ascertainable Records

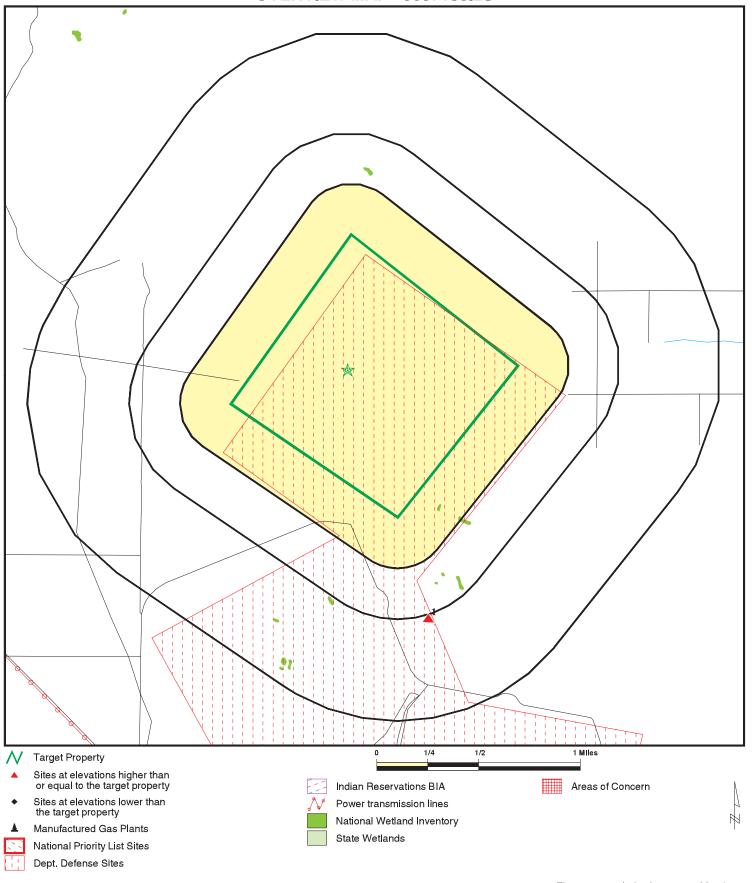
DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation Address		<b>Direction / Distance</b>	Map ID	Page
WEST COAST OVER THE		0 - 1/8 (0.000 mi.)	0	8

Due to poor or inadequate address information, the following sites were not mappe	ed. Count: 1 records.
Site Name	Database(s)
CHRISTMAS VALLEY RANCH SUPPLY*	EDR Hist Auto

# **OVERVIEW MAP - 5657193.2S**

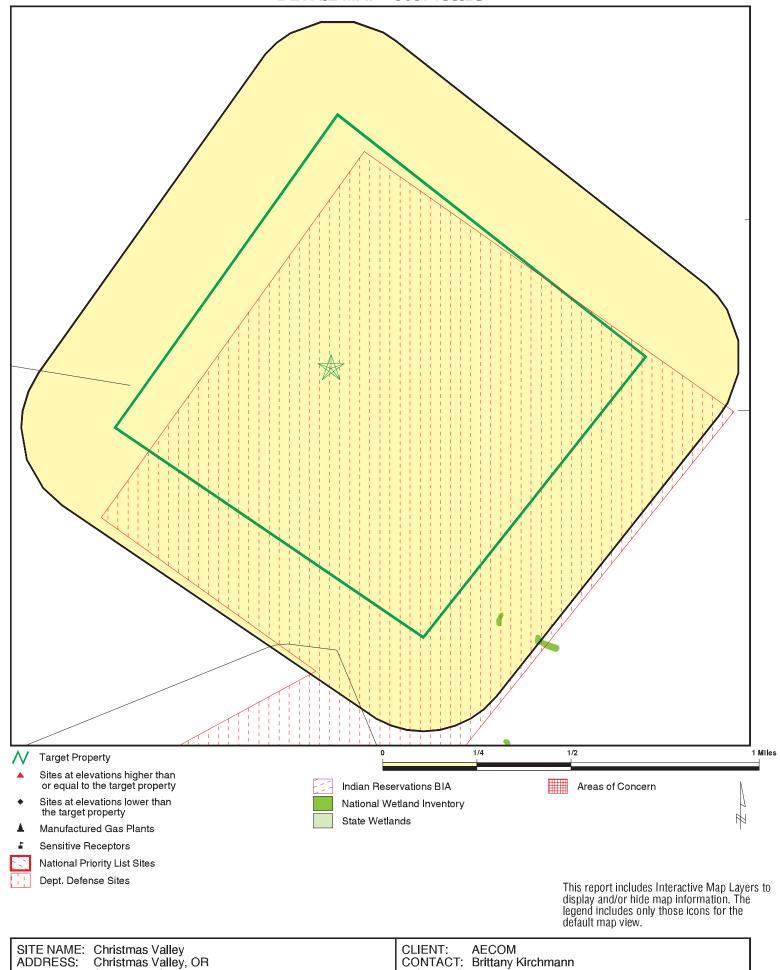


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Christmas Valley
ADDRESS: Christmas Valley, OR
Silver Lake OR 97638
LAT/LONG: 43.293782 / 120.382653

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5657193.2s
DATE: May 21, 2019 4:28 pm

# **DETAIL MAP - 5657193.2S**



Christmas Valley, OR Silver Lake OR 97638

43.293782 / 120.382653

ADDRESS:

LAT/LONG:

May 21, 2019 4:29 pm Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

5657193.2s

INQUIRY#:

DATE:

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 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL sit	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 li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COR	RACTS TSD f	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	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	3						
ECSI CRL	1.000 1.000		0 0	0 0	0 0	1 0	NR NR	1 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 l	ists						
LUST INDIAN LUST	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registere	ed storage tar	ık lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	<u>1/4 - 1/2</u>	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 institution control / engineering con		;						
ENG CONTROLS INST CONTROL	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal voluntary	cleanup site	s						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS							
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
HIST LF SWRCY INDIAN ODI DEBRIS REGION 9 ODI 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	0 0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste /							
AOCONCERN US HIST CDL CDL US CDL	1.000 TP TP TP		0 NR NR NR	0 NR NR NR	0 NR NR NR	0 NR NR NR	NR NR NR NR	0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repor	ts						
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 Reco	ords							
RCRA NonGen / NLR FUDS DOD	0.250 1.000 1.000		0 0 1	0 0 0	NR 0 0	NR 0 0	NR NR NR	0 0 1

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	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	0
TSCA	TP		NR	NR	NR	NR	NR	0
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	Ö
FTTS	TP		NR	NR	NR	NR	NR	ŏ
MLTS	TP		NR	NR	NR	NR	NR	Ö
COAL ASH DOE	TP		NR	NR	NR	NR	NR	Ö
COAL ASH EPA	0.500		0	0	0	NR	NR	Ö
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	Ö
RADINFO	TP		NR	NR	NR	NR	NR	Ö
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	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		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
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		Ö	NR	NR	NR	NR	Ö
EDR Hist Cleaner	0.125		Ö	NR	NR	NR	NR	Ö
	- <del></del>		-		·			-

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
EDR RECOVERED GO	EDR RECOVERED GOVERNMENT ARCHIVES									
Exclusive Recovere	ed Govt. Archives									
RGA HWS	TP		NR	NR	NR	NR	NR	0		
RGA LF	TP		NR	NR	NR	NR	NR	0		
RGA LUST	TP		NR	NR	NR	NR	NR	0		
- Totals		0	1	0	0	1	0	2		

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

Elevation Site Database(s) EPA ID Number

DOD WEST COAST OVER THE HORIZON BACKSCATTER RADAR SYST DOD CUSA107915
Region N/A

WEST COAST OVER THE HORIZ (County), OR

< 1/8 1 ft.

DOD:

Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported

Name 1: West Coast Over the Horizon Backscatter Radar System

Name 2: Not reported
Name 3: Not reported
State: OR
DOD Site: Yes

**ORLAKE** 

1 CHRISTMAS VALLEY RADAR BASE ECSI S106880472 SSE WAGON TIRE RD & RADAR SITE RD (NE CORNER OF) N/A

1/2-1 CHRISTMAS VALLEY, OR 97638

Tile name:

0.517 mi. 2729 ft.

Relative: ECSI:

 Higher
 State ID Number:
 4352

 Actual:
 Brown ID:
 0

 4303 ft.
 Study Area:
 False

 Region ID:
 1

 Legislatve ID:
 0

Investigation: No Further Action

FACA ID: 86731 Further Action: 0

Lat/Long (dms): 43 16 34.30 / -120 22 29.30

County Code: 19.00

Qtr Section: Not reported Tax Lots: Not reported Size: Not reported NPL: False Orphan: False Updated By: **DCROUSE** Update Date: 02/02/2009 Created Date: 03/18/2005 Decode For RegionID: Eastern Region Decode For BrownID: Not reported Decode For Furtheract: Not reported No Further Action Decode For Investstat: Decode For Legislative: Not reported Alias Name: Christmas Valley Backscatter Site

Narrative:

NARR ID: 5746405 NARR Code: Contamination **EDR ID Number** 

Direction Distance

Elevation Site Database(s) EPA ID Number

#### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Created By: DCROUSE
Created Date: 03/18/2005
Updated By: DCROUSE
Updated Date: 08/02/2006
Decode for NarcdID: Contamination

NARR Comments: (3/18/05 DMC/SAS) Site added to database for tracking as a military

installation that is in the process of being decommissioned; ER/SAS

received a copy of an environmental assessment for the

over-the-horizon backscatter radar site. UST decommissioning in progress and site is also being evaluated for potential asbestos

issues by ER/Bend staff.

NARR ID: 5748354

NARR Code: Data Sources

Created By: DCROUSE

Created Date: 08/02/2006

Updated By: DCROUSE

Updated Date: 08/02/2006

Decode for NarcdID: Data Sources

NARR Comments: 1. Enivronmental Assessment (US military).

NARR ID: 5751392

NARR Code: General Site Description

Created By: GWISTAR
Created Date: 04/27/2009
Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: General Site Description

NARR Comments: The transmitter site, located near Christmas Valley, occupies land

that is managed by the Air Force and has been withdrawn from public use by the U.S. Bureau of Land Management (BLM). A receiver station

is present near Tule Lake, California. In addition to the radar structure, there is a transmitter building, a vehicle maintenance shop, and an electric switching station associated with the sector 4 antenna (the northernmost sector). The other two sectors each have a

transmitter building and an electric switching station.

NARR ID: 5748353

NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/02/2006

Updated By: DCROUSE
Updated Date: 08/02/2006

Decode for NarcdID: Remedial Action

NARR Comments: (9/1/05 DMC/SAS) Site screening recommended.

NARR ID: 5751393

NARR Code: Site History
Created By: GWISTAR
Created Date: 04/27/2009

Updated By: GWISTAR
Updated Date: 04/27/2009

Decode for NarcdID: Site History

NARR Comments: The OTH-B radar system was developed in the early 1970s to provide

all-altitude, long-range surveillance of aerial approaches to the United States. Two OTH-B radar systems were constructed, one system

united States. Two OTH-B radar systems were constructed, one system each on the West and East Coasts. Each system included transmitter,

Direction Distance Elevation

ion Site Database(s) EPA ID Number

#### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

receiver, and operations sites. OTH-B radar systems used the ionosphere to refract outgoing radar waves and return signals, enabling the system to detect and track targets that would otherwise be hidden by the curvature of the earth, at ranges of up to 1,800 nautical miles. Processed data was communicated from the receiver location to the operations site for correlation with known aircraft positions. The OTH-B radar system was built by General Electric beginning in 1986. The Air Force accepted control of the system in December 1990. In 1991 just months after being put into place, the West Coast site reduced its activities to caretaker status and it has remained in the status for the past 15 years.

Administrative Action:

Action ID: 9443

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/15/2008

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: NO FURTHER STATE ACTION REQUIRED

Further Action: 0

Comments: Not reported

Action ID: 9425

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: SITE EVALUATION Further Action: 0

Comments: Not reported

Action ID: 9437

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/02/2009

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Listing Action Action Code Flag: False

Action: Listing Review completed

Further Action: 0

Comments: Not reported

Action ID: 9440

Region: Eastern Region Complete Date: 08/31/2006

Direction Distance

Elevation Site Database(s) EPA ID Number

#### CHRISTMAS VALLEY RADAR BASE (Continued)

S106880472

**EDR ID Number** 

Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Letter Agreement Further Action: 0

Comments: Not reported

Action ID: 9459

Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/31/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: PRELIMINARY ASSESSMENT EQUIVALENT

Further Action: High-Medium Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Not reported Category: Administrative Action

Action Code Flag: False

Action: Site added to database Further Action: Not reported Comments: Not reported

Action ID: 9508

Region: Eastern Region
Complete Date: 03/18/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2005

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)

Further Action: 0

Comments: Not reported

Operations:

Operation Id: 135052 Operation Status: Inactive

Common Name: Christmas Valley Radar Base Yrs of Operation: 1990 to present (circa).

Map ID MAP FINDINGS Direction

Distance

Elevation Site Database(s)

### CHRISTMAS VALLEY RADAR BASE (Continued)

Comments: Military radar base.

Updated Date: 03/18/2005
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 198555
SIC Code: 9711
Created By: DCROUSE
Created Date: 03/18/2005

S106880472

**EDR ID Number** 

**EPA ID Number** 

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SILVER LAKE	1021621200	CHRISTMAS VALLEY RANCH SUPPLY*	CHRISTMAS VALLEY RD	97638	EDR Hist Auto

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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019

Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

**NPL Site Boundaries** 

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

**EPA Region 1** EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

**EPA Region 3** EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 **EPA Region 8** 

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

**EPA Region 10** 

Telephone 206-553-8665

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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 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: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: EPA Telephone: N/A

Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 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: 04/03/2019 Date Data Arrived at EDR: 04/05/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 39

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 04/05/2019

Next Scheduled EDR Contact: 07/15/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/29/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency Telephone: (206) 553-1200

Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

#### Federal institutional controls / engineering controls registries

#### LUCIS: Land Use Control Information System

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

Date of Government Version: 02/22/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 41

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019 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: 01/31/2019 Date Data Arrived at EDR: 02/04/2019 Date Made Active in Reports: 03/08/2019

Number of Days to Update: 32

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 02/04/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 36

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

#### State- and tribal - equivalent CERCLIS

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-6629 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 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: 01/14/2019 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: Department of Environmental Quality

Telephone: 503-229-6299 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019
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: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/11/2018

Number of Days to Update: 26

Source: Department of Environmental Quality

Telephone: 503-229-5790 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/13/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

#### State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage 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: 04/25/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Varies

UST: Underground Storage Tank Database

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 11/15/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019 Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 01/17/2019 Date Data Arrived at EDR: 01/23/2019 Date Made Active in Reports: 03/18/2019

Number of Days to Update: 54

Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2018 Date Data Arrived at EDR: 03/08/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 54

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

Data Noicase Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/03/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 03/12/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 50

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/01/2018 Date Data Arrived at EDR: 03/07/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019

Number of Days to Update: 55

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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: 01/01/2019 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 48

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

#### State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Varies

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: 12/31/2018 Date Data Arrived at EDR: 01/15/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 36

Source: DEQ

Telephone: 503-229-5256 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

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: 11/01/2018
Date Data Arrived at EDR: 11/15/2018
Date Made Active in Reports: 12/10/2018

Number of Days to Update: 25

Source: Department of Environmental Quality

Telephone: 503-229-6801 Last EDR Contact: 05/15/2019

Next Scheduled EDR Contact: 08/26/2019
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: 12/17/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 01/11/2019

Number of Days to Update: 24

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 03/19/2019

Next Scheduled EDR Contact: 07/01/2019 Data Release Frequency: Semi-Annually

#### Local Lists of Landfill / Solid Waste Disposal Sites

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 11/29/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 83

Source: Department of Environmental Quality

Telephone: 503-229-5353 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Quarterly

HIST LF: Old Closed SW Disposal Sites

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

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019
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: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 04/23/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

#### Local Lists of Hazardous waste / Contaminated Sites

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 February, 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

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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019
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: 10/29/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Varies

CDL: Uninhabitable Drug Lab Properties

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.

Date of Government Version: 01/28/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Consumer & Business Services

Telephone: 503-378-4133 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 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: 02/24/2019 Date Data Arrived at EDR: 02/26/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 50

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 49

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 Data Release Frequency: Quarterly

#### SPILLS: Spill Data

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 01/04/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 04/01/2019

Next Scheduled EDR Contact: 07/15/2019 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: 09/05/2018 Date Data Arrived at EDR: 10/31/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 40

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2006 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/22/2013

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### Other Ascertainable Records

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019 Date Data Arrived at EDR: 03/27/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 21

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 03/27/2019

Next Scheduled EDR Contact: 07/08/2019 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: 04/03/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019
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: 04/12/2019

Next Scheduled EDR Contact: 07/22/2019

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: 05/13/2019

Next Scheduled EDR Contact: 08/26/2019 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: 03/25/2019 Date Data Arrived at EDR: 03/26/2019 Date Made Active in Reports: 05/07/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 03/26/2019

Next Scheduled EDR Contact: 07/08/2019 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: 05/06/2019

Next Scheduled EDR Contact: 08/19/2019 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: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019

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: 03/22/2019

Next Scheduled EDR Contact: 07/01/2019 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: 02/20/2019

Next Scheduled EDR Contact: 06/03/2019 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: 04/24/2019

Next Scheduled EDR Contact: 08/05/2019 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: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 18

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Annually

#### RMP: Risk Management Plans

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

Date of Government Version: 02/01/2019 Date Data Arrived at EDR: 02/14/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 35

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 04/22/2019

Next Scheduled EDR Contact: 08/05/2019 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 Parties

Date of Government Version: 03/11/2019 Date Data Arrived at EDR: 03/14/2019 Date Made Active in Reports: 04/17/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 05/10/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2019 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 34

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 04/10/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 04/08/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

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

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

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

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: 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

MLTS: Material Licensing Tracking System

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

Date of Government Version: 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

Next Scheduled EDR Contact: 08/05/2019 Data Release Frequency: Quarterly

Last EDR Contact: 04/22/2019

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 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 03/07/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 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 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 04/26/2019

Next Scheduled EDR Contact: 08/05/2019

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: 04/02/2019 Date Data Arrived at EDR: 04/02/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 42

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 04/02/2019

Next Scheduled EDR Contact: 07/15/2019 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 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018 Date Data Arrived at EDR: 01/29/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 04/30/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 02/11/2019 Date Made Active in Reports: 03/21/2019

Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 04/05/2019

Next Scheduled EDR Contact: 07/22/2019

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: 02/13/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 04/11/2019

Next Scheduled EDR Contact: 07/22/2019 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: 05/02/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 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: 02/22/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019 Date Data Arrived at EDR: 04/18/2019 Date Made Active in Reports: 05/14/2019

Number of Days to Update: 26

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 04/18/2019

Next Scheduled EDR Contact: 07/15/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites

may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

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

Number of Days to Update: 36

Source: American Journal of Public Health Telephone: 703-305-6451

Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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

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

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

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

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

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

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

Date of Government Version: 11/27/2018 Date Data Arrived at EDR: 02/27/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 02/27/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

Date of Government Version: 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 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: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019

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: 03/27/2019 Date Data Arrived at EDR: 03/28/2019 Date Made Active in Reports: 05/01/2019

Number of Days to Update: 34

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 03/21/2019

Next Scheduled EDR Contact: 06/24/2019
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: 02/15/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 03/15/2019

Number of Days to Update: 10

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 03/05/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 03/03/2019 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 27

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 04/09/2019

Next Scheduled EDR Contact: 07/22/2019 Data Release Frequency: Quarterly

#### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017 Date Data Arrived at EDR: 01/17/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 74

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 04/15/2019

Next Scheduled EDR Contact: 07/29/2019 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 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 03/01/2019

Next Scheduled EDR Contact: 06/10/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019 Date Data Arrived at EDR: 02/21/2019 Date Made Active in Reports: 04/01/2019

Number of Days to Update: 39

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 02/21/2019

Next Scheduled EDR Contact: 06/03/2019 Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 12/28/2018 Date Data Arrived at EDR: 01/03/2019 Date Made Active in Reports: 02/19/2019

Number of Days to Update: 47

Source: Department of Environmental Quality

Telephone: 503-229-6459 Last EDR Contact: 04/01/2019

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: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/05/2018 Date Data Arrived at EDR: 11/07/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 33

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 04/29/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Annually

ENF: Enforcement Action Listing Enforcement actions

> Date of Government Version: 12/17/2018 Date Data Arrived at EDR: 12/19/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 63

Source: Department of Environmental Quality

Telephone: 503-229-5696 Last EDR Contact: 03/20/2019

Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing Financial assurance information for hazardous waste facilities.

Date of Government Version: 08/20/2018 Date Data Arrived at EDR: 12/18/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 64

Source: Department of Environmental Quality

Telephone: 541-633-2011 Last EDR Contact: 03/04/2019

Next Scheduled EDR Contact: 06/17/2019 Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/15/2018 Date Data Arrived at EDR: 11/16/2018 Date Made Active in Reports: 12/10/2018

Number of Days to Update: 24

Source: Department of Environmental Quality

Telephone: 503-229-5521 Last EDR Contact: 05/17/2019

Next Scheduled EDR Contact: 09/02/2019 Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey

Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: State Fire Marshal's Office

Telephone: 503-373-1540 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 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: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 01/29/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 21

Source: Department of Environmental Quality

Telephone: 503-229-5657 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/19/2019 Data Release Frequency: Varies

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: 12/21/2018 Date Data Arrived at EDR: 12/27/2018 Date Made Active in Reports: 02/20/2019

Number of Days to Update: 55

Source: Department of Environmental Quality

Telephone: 503-229-5945 Last EDR Contact: 03/25/2019

Next Scheduled EDR Contact: 07/08/2019 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
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

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 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

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

Source: Department of Environmental Quality

#### 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: 01/01/2019 Date Data Arrived at EDR: 01/30/2019 Date Made Active in Reports: 02/14/2019

Number of Days to Update: 15

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 05/01/2019

Next Scheduled EDR Contact: 08/12/2019 Data Release Frequency: Quarterly

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: 03/11/2019

Next Scheduled EDR Contact: 06/24/2019 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 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**

CHRISTMAS VALLEY CHRISTMAS VALLEY, OR SILVER LAKE, OR 97638

# TARGET PROPERTY COORDINATES

Latitude (North): 43.293782 - 43° 17' 37.62" Longitude (West): 120.382653 - 120° 22' 57.55"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 712327.0 UTM Y (Meters): 4796551.0

Elevation: 4302 ft. above sea level

#### **USGS TOPOGRAPHIC MAP**

Target Property Map: 6070105 FOSSIL LAKE, OR

Version Date: 2014

East Map: 6070073 SAND ROCK, OR

Version Date: 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:

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

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

# **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).

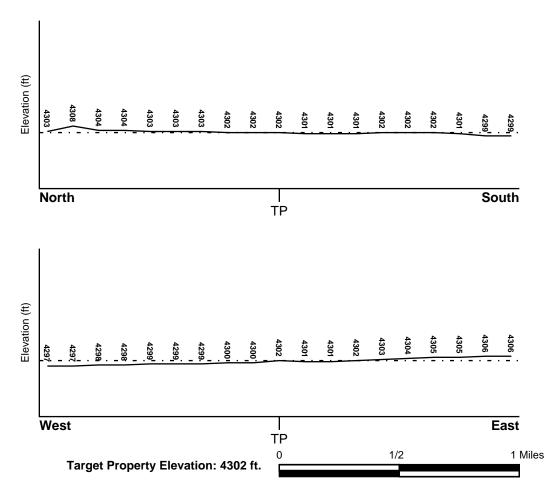
#### **TOPOGRAPHIC INFORMATION**

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 WSW

#### 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

Not Reported

Additional Panels in search area: FEMA Source Type

Not Reported

**NATIONAL WETLAND INVENTORY** 

NWI Quad at Target Property Data Coverage

NOT AVAILABLE 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.

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

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 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 Category: Stratifed Sequence

System: Quaternary Series: Quaternary

Code: Q (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: FLAGSTAFF

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic

conductivity, wet state high in profile, etc. Depth to water table is

1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

	Soil Layer Information						
	Bou	ındary		Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90
2	3 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 8.50
3	14 inches	60 inches	cemented	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: sand

loamy sand sandy loam

Surficial Soil Types: sand

loamy sand sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand

unweathered bedrock

silt loam

weathered bedrock

# **LOCAL / REGIONAL WATER AGENCY RECORDS**

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

# WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID FROM TP

No PWS System Found

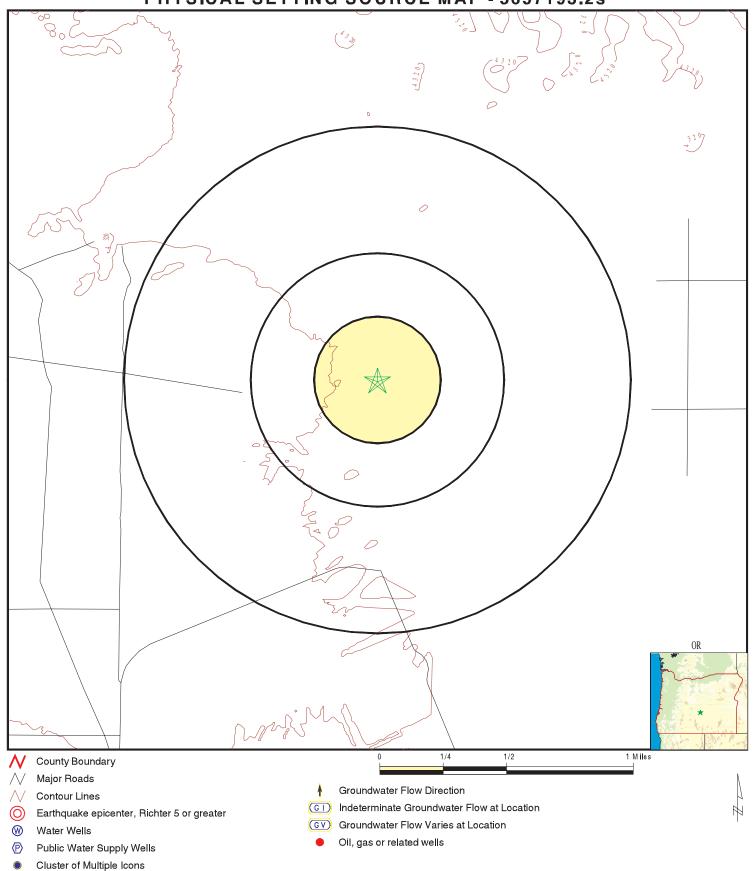
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

# PHYSICAL SETTING SOURCE MAP - 5657193.2s



SITE NAME: Christmas Valley Christmas Valley, OR Silver Lake OR 97638 43.293782 / 120.382653 ADDRESS: LAT/LONG:

CLIENT: AECOM CONTACT: Brittany Kirchmann

INQUIRY#: 5657193.2s DATE: May 21, 2019 4:29 pm

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

# AREA RADON INFORMATION

Federal EPA Radon Zone for LAKE 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

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

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Water 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

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

# STREET AND ADDRESS INFORMATION

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PFAS Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

# Appendix B Preliminary Assessment Documentation

PFAS Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

# **Appendix B.1 Interview Records**

PA Interview Questionnaire - Environmental Manager

Facility: Christmas Vallen

Interviewer

Date/Time: 9 10 18

Tit Pho Em	Can your name/role be used in the PA Report? Yor N cle: Env. Manager Cultural resources mail:  Roles or activities with the Facility/years working at the Facility.  OMD Environmental Manager (~15 years)  OMD Cultural Resources Manager (~15 years)
2.	Where can I find previous facility ownership information?
	willsend
50	Visitation of the Community of the State of
3.	What can you tell us about the history of PFAS including aqueous film forming foam (AFFF) at the 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 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?

PA I	nterview	Questionnaire	- Environmental	Manager
------	----------	---------------	-----------------	---------

Facility:	Telegraphy of the second
nterviewer:_	
Date/Time:	

6. Are fire suppression systems currently charged with AFFF or have they been retrofitted for use of high expansion foam? If retrofitted, when was that done?

NO

7. How is AFFF procured? Do you have an inventory/procurement system that tracks use?

NO

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)?



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?



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?

None

PA Interview Questionnaire - Environmental M	Manager
--	---------

Facility:	especially in a
Interviewer:	5.01
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?

NA

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?

NO

13. Did military routinely or occasionally fire train off-post? List the units that you can recall used/trained at various areas.

NO

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?

NO

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?

MO

PA	Interview	Questionnaire -	<b>Environmental</b>	Manager
----	-----------	-----------------	----------------------	---------

Facility:	War mid NO
Interviewer:	
Date/Time:	

16. Do you have records of fuel spill logs? Was it common practice to wash away fuel spills with AFFF? Is/was AFFF used as a precaution in response to fuel releases or emergency runway landings to prevent fires?

NO

17. Was AFFF used for forest fires or fire management on-post/off-post? If so, please describe what happened and who was involved?

NO

18. Are there mutual aid/use agreements between county, city, and local fire department? Please list, even if informal. If formalized, may we have a copy of the agreement?

NO

19. Can you provide any other locations where AFFF has been stored, released, or used (i.e. hangars, buildings, fire stations, firefighting equipment testing and maintenance areas, emergency response sites, storm water/surface water, waste treatment plants, and AFFF ponds)?



20. Are you aware of any other creative uses of AFFF? If so, how was AFFF used? What entities were involved?

	PA	Interview	<b>Ouestionnaire</b>	- Environmental	Manager
--	----	-----------	----------------------	-----------------	---------

Facility:	Orango and All
nterviewer:	
Date/Time:	

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?

NO

22. What other records might be helpful to us (environmental compliance, investigation records, admin record) and where can we find them?

Potential Previous

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.?

NO

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?

NA

PA Interview Questionnaire - Environmental Manager	Facility: Interviewer: Date/Time:	
26. Do you recommend anyone else we can interview? If so, do you	have contact information for the	m?
NO		

Title: Maint. Optationa Super Fall. Can your name/role be used in the Phone Number:  Email:  Can your name/role be used in the Can you recommend anyone we can you recomme	PA Report? Y or N in interview?
Roles or activities with the Facility/Years working at the Facility:	
- Maintenance Operation Superi	ntendent
- Facility Maintenance	
since XMas came under ARNG cor in 2010	1trol
<b>PFAS Use:</b> Identify accidental/intentional release locations, time frame of release, free storage container size (maintenance, fire training, firefighting, buildings with suppress builts), fueling stations, crash sites, pest management, recreational, dining facilities, materproofing). How are materials ordered/purchased/disposed/shared with others?	ion systems (as
	Known Uses
* Facility came under ARNG in	Use
2010	Procurement
	Disposition
*No use storage or release so of AFFF	Storage (Mixed)
or other PFAS-related materials	Storage (Solution)
	Inventory, Off-Spec
Facility abandoned, dismantled ~2005	Containment
	SOP on Filling
FSS are water only	Leaking Vehicles
sprinklers are the + original w/ building	Nozzle and Suppression System Testing
Na AFF fire extinguishing	Dining Facilities
No running water i KW Wells not active	Vehicle Washing
NO Knowledge of Fuel Points	Ramp Washing
No storage, tanks, trucks, or FSS	Fuel Spill Washing and Fueling Stations
	Chrome Plating or

PFAS Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

# Appendix B.2 Visual Site Inspection Checklists

# Visual Survey Inspection Log

			Recorded b
Source/Release Information			ARNG Contac  Date: 10   3   8
Site Name / Area Name / Unique ID:	Christmas Vall	2 N	10 3 1 8
Site / Area Acreage:		THE TAX COUNTY OF THE PARTY OF	
Historic Site Use (Brief Description):	Used by Air ton	cefor radar	equipment use; om
Current Site Use (Brief Description):	No onsite activi	ties or regula	r facility personnels
1. Was AFFF used (or spilled) at the site/ar	rea? Y(N)		- Heavy new England Mills
		English and	Secretary and the second
2. Has usage been documented?  2a. If yes, keep a rec	cord (place electronic files on a disk):		
What types of businesses are located nea     3a. Indicate what businesses.	r the site? Industrisinesses are located near the site	ial / Commercial / Plating / \	Vaterproofing / Residential
4. Is this site located at an airport/flightline 4a. If yes, provide a	? YN adescription of the airport/Ilightline ter	ants	regional egiticar con that afternoon give trade-le-
Other Significant Site Features:		Plan	
Does the facility have a fire suppression <u>la. If yes, indicate v</u>	system? Y(N) (Not at which type of AFFF has been used:	this particular location on FTIG	3)
1b. If yes, describe	maintenance schedule/leaks:		
1c. If yes, how ofter	is the AFFF replaced:		10 / A 10
ld. If yes, does the	facility have floor drains and where do	they lead? Can we obtain an a	s built drawing?
Transport / Pathway Information Migration Potential:	The state of the state of		STATE OF THE STATE OF
Does site/area drainage flow off installat     la. If so, note observable.			
2. Is there channelized flow within the site/ 2a. If so, please note	area? e observation and location:	Y (N	
3. Are monitoring or drinking water wells I 3a. If so, please note		V/N	
4. Are surface water intakes located near the		YN	
Significant Topographical Features:			
Has the infrastructure changed at the site     la. If so, please description	eribe change (ex. Structures no longer	exist):	

# Visual Survey Inspection Log

2. Is the site/area vege	etated? Y N  2a. If not vegetated, briefly describe the	he site/area composition:
3. Does the site or are	a exhibit evidence of erosion?  3a. If yes, describe the location and ex	xtent of the erosion:
4. Does the site/area e	exhibit any areas of ponding or standing 4a. If yes, describe the location and ex	
Receptor Informa  1. Is access to the site		
2. Who can access the	e site? Site Workers / 2a. Circle all that apply, note any not of	/ Construction Workers / Trespassers / Residential / Recreational Users / Ecological covered above:
3. Are residential area	is located near the site?  3a. If so, please note the location/dista	ance:
4. Are any schools/day	y care centers located near the site?  4a. If so, please note the location/dista	ance/type:
5. Are any wetlands lo	ocated near the site?  5a. If so, please note the location/dista	ance/type:
Additional Notes  Aban Or w	doned site W/	no surrounding buildings, facilities
Photographic Log		
Photo ID/Name	Date & Location	Photograph Description
=		
	-	
		- LEI

PFAS Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

# Appendix B.3 Conceptual Site Model Information

# **Preliminary Assessment – Conceptual Site Model Information**

Site Name: Christmas Valley Radar Site				
Why has this location been identified as a site? Potential former storage or fire suppression systems (found no evidence of either)				
Are there any other activities nearby that could also impact this location? No				
Training Events				
Have any training events with AFFF occurred at this site? No				
If so, how often? N/A				
How much material was used? Is it documented? N/A				
<b>Identify Potential Pathways:</b> 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? Varies depending on area of facility. Generally north in the northern parcel, northeast in the central parcel, and southeast in the southern parcel				
Average rainfall? 15 inches/year				
Any flooding during rainy season? No				
Direct or indirect pathway to ditches? Indirect				
Direct or indirect pathway to larger bodies of water? Indirect				
Does surface water pond any place on site? No				
Any impoundment areas or retention ponds? No				
Any NPDES location points near the site? No				
How does surface water drain on and around the flight line? N/A				

# **Preliminary Assessment – Conceptual Site Model Information**

# **Groundwater:** Groundwater flow direction? No specified flow; very little annual rainfall and no nearby water bodies Depth to groundwater? Water table below soil is around 24-40 inches, but depth varies Uses (agricultural, drinking water, irrigation)? Agricultural and irrigation Any groundwater treatment systems? No Any groundwater monitoring well locations near the site? Yes. Monitoring wells located within 4 miles of facility Is groundwater used for drinking water? No; there is no running water at the facility Are there drinking water supply wells on installation? No Do they serve off-post populations? N/A Are there off-post drinking water wells downgradient? Several domestic wells located around 4 miles north of the facility **Waste Water Treatment Plant:** Has the installation ever had a WWTP, past or present? No If so, do we understand the process and which water is/was treated at the plant? N/A Do we understand the fate of sludge waste? N/A Is surface water from potential contaminated sites treated? N/A **Equipment Rinse Water** 1. Is firefighting equipment washed? Where does the rinse water go? N/A 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? N/A 3. Other?

# **Preliminary Assessment – Conceptual Site Model Information**

# Identify Potential Receptors: Site Worker: No Construction Worker: No Recreational User: No Residential: No Child: No Ecological: No Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)? Only some agricultural and livestock areas located within a few miles south of the facility Documentation Ask for Engineering drawings (if applicable). Okay Has there been a reconstruction or changes to the drainage system? When did that occur? No

PFAS Preliminary Assessment Report Christmas Valley Radar Site Christmas Valley, Oregon

Appendix C
Photographic Log

# APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS

**Christmas Valley Radar Site** 

Christmas Valley, Oregon

# Photograph No. 1

# **Description:**

Facing north. A view of the main front entrance from the northern-most parcel. This area remains closed at all times.



# Photograph No. 2

# **Description:**

Facing northeast. An old storage shed directly across from the main entrance.



# APPENDIX C - Photographic Log

Army National Guard, Preliminary Assessment for PFAS

**Christmas Valley Radar Site** 

Christmas Valley, Oregon

# Photograph No. 3

# **Description:**

A view of the old halon fire suppression system within the main building.



# Photograph No. 4

# **Description:**

A posted sign confirming halon has been removed from the fire suppression system within the main building.



APPENDIX C – Photographic Log					
Army National Guard, Preliminary Assessment for PFAS	Christmas Valley Radar Site	Christmas Valley, Oregon			

# Photograph No. 5

# **Description:**

One of the many fire alarms located throughout the main building. The fire suppression system formally contained halon but all halon has been removed and the fire suppression system is no longer active.

