## Checklist for Phase I Site Assessments Conducted using EPA Brownfields Assessment Grant Funds

### Contact Information

Grantee Name: City of Chiloquin, Oregon

Grant Number: BF-02J00701

ACRES Property ID: 250932

Program Manager Name: (Point of Contact) Teresa Foreman, Project Manager

Contact Phone Number: 541-783-2717

Name / Address of Property Assessed: Former Markwardt Bros. Garage, Chocktoot St, C

### Checklist

Please indicate that each of the following All Appropriate Inquiries documentation requirements were met for the Phase I assessment conducted at the above listed property:

- ■ An ***opinion*** as to whether the inquiry has identified conditions indicative of releases or threatened releases of hazardous substances, and as applicable, pollutants and contaminants, petroleum or petroleum products, or controlled substances, on, at, in, or to the subject property.

- ■ An identification of ***"significant" data gaps*** (as defined in §312.10 of AAI final rule and §12.7 of ASTM E1527-05 and E1527-13), if any, in the information collected for the inquiry, as well as comments regarding the significance of these data gaps. Significant data gaps including missing and unattainable information that affects the ability of the environmental professional to identify conditions indicative of releases or threatened releases of hazardous substances, and as applicable, pollutants and contaminants, petroleum or petroleum products, or controlled substances, on, at, in, or to the subject property. **n/a (no significant data gaps identified)**

- ■ ***Qualifications*** **and** ***signature*** of the environmental professional(s). The environmental professional must place the following statements in the document and sign the document:
  - ■ *"[I, We] declare that, to the best of [my, our] professional knowledge and belief, [I, we] meet the definition of Environmental Professional as defined in §312.10 of this part."*
  - ■ *"[I, We] 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, We] have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."*

  **Note: Please use either "I" or "We."**

- ■ In compliance with §312.31(b) of the AAI final rule and §12.6.1 of ASTM E1527-05 and E1527-13, the environmental professional must include in the final report an ***opinion regarding additional appropriate investigation***, if the environmental professional has such an opinion.

Teresa R Foreman — 11.29.2021

Signature of Grantee Program Manager — Date

# Phase I Environmental Site Assessment Report (Update to May 17, 2021 Phase I ESA)

Former Markwardt Brothers Garage
West Chocktoot Street & North 1st Avenue
Chiloquin, Klamath County, Oregon

Prepared for: City of Chiloquin
EPA Cooperative Agreement #BF-02J00701
November 29, 2021

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| Project Name | Phase I Environmental Site Assessment Report (Update to May 17, 2021 Phase I ESA)<br>Former Markwardt Brothers Garage |
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# Document History

| Version | Effective Date | Description of Revision | Prepared by | Reviewed by |
|---|---|---|---|---|
| 1.0 | 11.29.2021 | Phase I ESA Update | Sam Urban | Keith Ziobron, P.E. |
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# 1 Executive Summary

Cardno completed a Phase I Environmental Site Assessment (ESA) of the Former Markwardt Brothers Garage property located at the northeast corner of West Chocktoot Street and North 1st Avenue, in Chiloquin, Klamath County, Oregon. The above-referenced property is herein referred to as the "Subject Property" or "Site." Figures depicting the topography, site vicinity, and property boundaries are provided as **Figures 1, 2,** and **3, r**espectively. This Phase I ESA was completed as an update to the Phase I ESA dated May 17, 2021 in light of the City of Chiloquin's intent to acquire the property from Klamath County.

According to information provided by the Klamath County Tax Assessors office, the Site consists of two tax parcels totaling approximately 0.55-acres, identified by tax parcel identification numbers 3407-034DC-00500 and 3407-034DC-00400. The parcels are situated along North 1st Avenue and West Chocktoot Street, and consist of undeveloped land and a vacant, former automotive garage/ service station. The Site's northern parcel with frontage to North 1st Avenue is vacant land with no structural improvements. The southern parcel fronts both North 1st Avenue and West Chocktoot Street, and contains a single-story former automotive garage/ service station (former Markwardt Brothers Garage) totaling approximately 8,500 square-feet, and a debris pile from a collapsed commercial building (former Chiloquin Mercantile).

According to the City of Chiloquin Public Works Department, the automotive garage historically operated as an auto repair/car dealership and gasoline service station from the 1930s through the 1960s; a second-hand store in the 1970s; and the Juniper Wood Products facility in the 1980s. A commercial building adjoined the garage's north wall until it collapsed due to structural failure in approximately 2018, and remains on-Site as a debris pile. The area to the north of the debris pile consist of vacant land once occupied by a rooming house.

The surrounding area is primarily developed with commercial buildings associated with downtown Chiloquin, as shown on **Figure 3.** Photos of the Site and surrounding properties taken during the inspection are provided in **Appendix A.**

This assessment was performed under and funded by the City of Chiloquin Environmental Protection Agency (EPA) Brownfield Assessment Grant # BF-02J00701-0 in general accordance with *40 CFR Part 312 Standards and Practices for All Appropriate Inquiries* and *ASTM Standard Practices E1527-13 for Environmental Site Assessments.*

This Phase I ESA follows the scope of *ASTM Designation: E1527-13 – Standard Practice for Environmental Site Assessments* (ASTM E1527-13). This report also meets the requirements for conducting all appropriate inquiry into the previous ownership, uses, and environmental conditions of a property, as specified in *40 Code of Federal Regulations (CFR) Part 312, Standards and Practices for All Appropriate Inquiries*. All appropriate inquiry (AAI) User Questionnaires (**Appendix C**) were provided to the User and the current business operator. Furthermore, this work was conducted by or under the responsible charge of an environmental professional as defined in *40 CFR §312.10*.

*ASTM E1527-13* defines a Recognized Environmental Condition (REC) as:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment, 2) under conditions

indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include *de Minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

*ASTM E1527-13* defines a Controlled Recognized Environmental Condition (CREC) as:
"A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

*ASTM E1527-13* defines a Historical Recognized Environmental Condition (HREC) as:
"A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls."

## 1.1 Conclusions

Cardno completed this Phase I ESA in conformance with the scope and limitations of *ASTM E1527-13*. Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed REC(s) in connection with the Site, as shown on **Figure 5** and presented in **Table 1** below:

**TABLE 1: REC SUMMARY**

| Report Section | | *De minimis* Condition | REC and/or CREC | Historical REC | Description |
|---|---|---|---|---|---|
| **4.0** | **User Provided Information** | No | No | No | |
| **5.1** | **Federal, State and Local Database Findings** | No | No | No | |
| **5.2** | **Additional Environmental Record Sources** | No | No | No | |
| **5.3** | **Local Environmental Record Sources** | No | No | No | |
| **5.3** | **Historical Records Sources** | No | No | No | |
| **6.2** | **Hazardous Substance Use, Storage, and Disposal** | No | Yes | No | Former use as an auto repair garage (**REC #1**) |
| **6.3** | **Underground Storage Tanks** | No | Yes | No | Possible UST(s) and/or heating oil tank on the Subject Property (**REC #1**) |
| **6.4** | **Aboveground Storage Tanks** | No | No | No | |
| **6.5** | **Other Petroleum Products** | No | No | No | In-ground hydraulic lifts and oil-change pit on the Subject Property (**REC #1**) |
| **6.6** | **Polychlorinated Biphenyls (PCBs)** | No | No | No | In-ground hydraulic lifts on the Subject Property (**REC #1**) |
| **6.7** | **Unidentified Substance Containers** | No | No | No | |

| | | | | | |
|---|---|---|---|---|---|
| **6.8** | **Nonhazardous Solid Waste** | No | No | No | |
| **6.9** | **Wastewater** | No | No | No | |
| **6.10** | **Waste Pits, Ponds and Lagoons** | No | No | No | |
| **6.11** | **Sumps** | No | No | No | |
| **6.12** | **Septic Systems** | No | No | No | |
| **6.13** | **Storm Water Management System** | No | No | No | |
| **6.14** | **Wells** | No | No | No | |
| **7.0** | **Subsurface Vapor Migration** | No | No | No | |
| **8.0** | **Interviews** | No | No | No | |

Cardno identified the following on-site REC during this Phase I ESA:

## On-Site RECs

1. As noted in Cardno's May 2021 Phase I ESA, the Site formerly operated as an automotive repair garage and gasoline filling station. Based on the previous RECs identified in connection with this historical use and potential for resulting hazardous substance and/or petroleum product impact, the Subject Property's prospective purchaser (City of Chiloquin) requested entry into the Oregon Voluntary Cleanup Program. Oregon Department of Environmental Quality (ODEQ) accepted the Subject Property into the program in the Voluntary Letter Agreement on June 3, 2021 (ODEQ ID# 6462). Subsurface environmental assessments activities were subsequently completed by Cardno in July of 2021, and included advancing nine soil borings, installing five temporary groundwater monitoring wells, and completing a ground-penetrating radar study for abandoned underground storage tanks. Ten soil samples and six groundwater samples were collected from the soil borings and monitoring wells, and analyzed for hazardous substance, petroleum products, metals, and polychlorinated biphenyls. Based on the radar study and analytical results of soil and groundwater samples, Cardno determined the likely presence of underground storage tanks, in-ground hydraulic lifts, an oil-change pit on the Subject Property, and an associated petroleum product release (below Oregon DEQ Risk-based Cleanup Criteria). Although the findings from Cardno's investigation largely mitigate the potential for hazardous substance and petroleum impact at the Site at concentrations requiring corrective action, the presence of abandoned underground storage tanks, hydraulic lifts, and the oil-change pit represents a potential threat for future petroleum impact to the subsurface. As such, these features are considered a REC requiring further assessment and/or proper decommissioning in accordance with ODEQ regulations. Note: It is the City's intent to address these features using funds requested via application for a FY2022 EPA Brownfield Cleanup grant.

### Off-Site RECs

Based on the finding of this Phase I ESA, in conjunction with data reviewed from Cardno's August 2021 Phase II ESA, no off-Site RECs where identified in connection with the Subject Property.

## Non-Scope Considerations

Based on the findings of this assessment, Cardno recommends the following actions to both facilitate redevelopment/reuse efforts on the Site and to protect future construction or excavation workers if these features are inadvertently encountered, or for future Site occupants in the event they result in a future release to the Site subsurface:

- Based on the GPR report provided by GPR Data, the area of the potential UST anomaly should be further investigated. If a UST is discovered, said UST should be decommissioned and reported in accordance with ODEQ guidelines;
- The potential for an additional heating oil UST in the Subject Property's east area (building interior east wall) should be further evaluated by installing a test pit/exploratory excavation, and if confirmed, the UST should be decommissioned in accordance with ODEQ guidelines;
- The in-ground hydraulic lifts and oil-change pit should be decommissioned by removal;
- Any concrete or soil removed from the Site should be characterized and directed to an appropriately permitted landfill for disposal;
- The debris/rubble pile should be characterized as regulated asbestos waste, and should be removed from the Site by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations.

**Non-Scope: Asbestos-Containing Materials**

The following asbestos containing materials (ACMs) were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.
- A debris pile is located north of the existing auto-repair garage, associated with a collapsed building, which formerly adjoining the existing structure. Cardno collected representative samples from the material and asbestos was identified (exceeding 1%) in plaster skim coating prevalent throughout the pile. Based on these findings the file should be considered ACM for the purposes of disposal.

**Non-Scope: Lead-Based Paint**

Lead-based paint (LBP) was identified on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.
- Building material samples collected from the debris pile were analyzed for lead by toxicity characteristic leaching procedure. Toxicity characteristic concentrations of lead did not exceed concentrations listed in 40 CFR § 261.24, Table 1 – Maximum Concentrations for the Toxicity Characteristic.

*Please note: This is a cursory summary of findings. The full report must be read in its entirety for a comprehensive understanding of the stated conclusions/recommendations.*

# 2 Introduction

## 2.1 Purpose

The purpose of this Phase I ESA was to identify RECs in connection with the Subject Property at the time of the site reconnaissance. This Phase I ESA was completed as an update to the Phase I ESA dated May 17, 2021 in light of the City of Chiloquin's intent to acquire the property from Klamath County.

The scope of work for this Phase I ESA did not include any additional environmental considerations beyond the scope of *ASTM E1527-13*. This report documents our research, opinions, and conclusions.

## 2.2 Detailed Scope of Services

This Phase I ESA was conducted in accordance with the *ASTM E1527-13*, consistent with the level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Any additions, deletions, or exceptions to *ASTM E1527-13* are noted in Section 2.4 or in the corresponding sections of this report. The scope of this assessment included an evaluation of the following:

- Physical setting characteristics of the Site through a review of referenced sources such as available topographic maps and geologic, soils, and hydrogeological reports.
- Usage of the Site, adjoining properties and surrounding area through a review of referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports, and interviews.
- Observations and interviews regarding current Site usage and conditions including: the use, treatment, storage, disposal, or generation of hazardous substances, petroleum products, hazardous wastes, nonhazardous solid wastes, and wastewater.
- Usage of adjoining and surrounding area properties and the likely impact of known or suspected releases of hazardous substances or petroleum products from those properties in, on, or at the property.
- Information in referenced environmental agency databases and local environmental records, within the specified approximate minimum search distance from the Site.
- Potential for subsurface vapor migration in, on, or at the Site.

No additional investigations, quantitative/qualitative testing, or other work was performed as part of this assessment that was not required by the *ASTM E1527-13,* unless otherwise noted above. These non-scope issues include, but are not limited to the following: Radon, Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Resources, Industrial Hygiene, Health and Safety, Geotechnical Evaluation, Sinkhole Evaluation, Ecological Resources, Endangered Species, Indoor Air Quality, Vapor Intrusion, Biological Agents, and Mold.

## 2.3 Significant Assumptions

While this report provides an overview of potential environmental concerns, both past and present, the environmental assessment is limited by the availability of information at the time of the assessment. It is possible that unreported disposal of waste or illegal activities impairing the environmental status of the Site may have occurred that could not be identified.

The conclusions regarding environmental conditions that are presented in this report are based on a scope of work authorized by the Client. Please note that virtually no scope of work, no matter how exhaustive, can identify all contaminants or all conditions both above and below ground. Cardno also assumes that the Client and other interested parties will read this report in its entirety.

## 2.4 Limitations, Exceptions, Deviations, and/or Data Gaps

Cardno has prepared this Phase I ESA report using reasonable efforts to identify RECs associated with hazardous substances or petroleum products in, on, or at the Site. Findings contained within this report are based on information collected from observations made on the day (November 4, 2021) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The *ASTM E1527-13* recognizes inherent limitations for Phase I ESAs, including, but not limited to:

- *Uncertainty Not Eliminated* – A Phase I ESA cannot completely eliminate uncertainty regarding the potential for RECs in connection with any Site.
- *Not Exhaustive* – A Phase I ESA is not an exhaustive investigation of the Site and environmental conditions on such property.
- *Past Uses of the Property* – Phase I requirements only require review of standard historical sources at five-year intervals. Therefore, past uses of the Site at less than five-year intervals may not be discovered.

Users of this report may refer to *ASTM E1527-13* for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or conclusive of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews, and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Cardno makes no representation or warranty that the past or current operations at the Site are, or have been, in compliance with all applicable federal, state and local laws, regulations, and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Cardno is not responsible for consequences or conditions arising from facts not fully disclosed to Cardno during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Cardno's observations or other credible referenced sources reviewed during the assessment. Cardno shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Cardno makes no warranty, guarantee or certification regarding the quality, accuracy, or reliability of any prior report provided to Cardno and discussed in this Phase I ESA report. Cardno expressly disclaims any and all liability for any errors or omissions contained in any prior reports provided to Cardno and discussed in this Phase I ESA report.

Cardno used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the Site during the assessment. “Reasonable efforts” were limited to observation of accessible areas, review of referenced public records, and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, vegetation, paving, construction activities, stored materials, and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the *Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act* or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Cardno.

Cardno did not act as a professional title insurance or land surveyor firm as part of this investigation, and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Site in this report, represent a comprehensive definition or precise delineation of Site ownership or boundaries.

The Environmental Professional Statement in Section 1.1 of this report does not “certify” the findings contained in this report and is not a legal opinion of such Environmental Professional. The statement is intended to document Cardno’s opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the Environmental Professional were performed in conformance with the standards and practices set forth in *40 CFR Part 312* per the methodology in *ASTM E1527-13* and the scope of work for this assessment.

Per *ASTM E1527-13, Section 6, User Responsibilities*, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of recognized environmental conditions in connection with the Site. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for Landowner Liability Protections (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Cardno makes no representations or warranties regarding a User’s qualification for protection under any federal, state or local laws, rules or regulations.

In accordance with the *ASTM E1527-13*, this report is presumed to be valid for a six-month period. If the report is older than six months, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet *the ASTM E1527-13* and therefore, the entire report must be updated to reflect current conditions and Site-specific information.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

No significant deviations or data gaps likely to affect the environmental professional's ability to identify RECs were observed or encountered during preparation of this report.

## 2.5 Special Terms and Conditions (User Reliance)

**This report is for the use and benefit of, and may be relied upon by the City of Chiloquin (Client), as well as any direct or indirect subsidiaries, affiliates, respective successors, and/or assigns, in accordance with the terms and conditions in place between Cardno and the Client for this project.**

Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the Site that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Cardno is at the sole risk and expense of such third party.

Cardno makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

# 3 Site Description

## 3.1 Location and Legal Description

The Site is situated on the northeast corner of North 1st Avenue and West Chocktoot Street in the downtown Chiloquin business district. The Site premise is comprised of two commercial parcels totaling 0.55-acres, improved with one approximately 8,500 square-foot former automotive repair garage, and undeveloped land. A debris pile, concrete slab and vault are located north of the garage, associated with a collapsed commercial building. **Figures 1 and 2** depict the Site surrounding vicinity and setting.

The Kamath County Tax Assessor, identifies the Site as tax parcel identification numbers 3407-034DC-00400 and 3407-034DC-00500, currently owned by Klamath County. The Tax Map is provided as **Figure 3.**

## 3.2 Current Use of the Site

The Subject Property's automotive garage is vacant with undeveloped land located to the north of the building.

## 3.3 Descriptions of Site Improvements

The Site improvements are summarized in **Table 2**.

| **TABLE 2 – SITE IMPROVEMENT SUMMARY** | |
|---|---|
| **Approximate Size of Site** | 0.55-acre |
| **General Topography of Site** | The majority of the Subject Site is flat, sloping slightly west/southwest towards the Williamson River. |
| **Adjoining and/or Ingress/Egress Roads** | The ingress points for the Subject Property observed via North 1st Avenue and West Chocktoot Street |
| **Paved Areas** | There are paved building slabs associated with the existing building and beneath the debris pile. There are no paved surface parking areas on the Subject Property. |
| **Unimproved Areas** | The northern half of the Subject Property is undeveloped land. |
| **Landscaped Areas** | There are landscaped areas on the north portions of the Subject Property. |
| **Surface Water** | None |
| **Potable Water Source** | City of Chiloquin |
| **Sanitary Sewer Utility** | Available |
| **Electrical Utility** | Available |
| **Natural Gas Utility** | Available |
| **Current Occupancy Status** | Vacant |
| **Unoccupied Buildings/Spaces/Structures** | Vacant |
| **Building Name or General Building Description** | Former Markwardt Brothers garage and auto sales; currently vacant. The remains of an adjacent collapsed/demolished building are located to the north |
| **Number of Floors** | One with partial mezzanine/loft |
| **Approximate Total Square Footage of Structure(s)** | Former Markwardt Bros. Garage: 8,500 sq. ft.<br>Vault: 150 sq. ft. |

| TABLE 2 – SITE IMPROVEMENT SUMMARY | |
|---|---|
| **Construction Completion Year** | Former Markwardt Bros. Garage: Pre-1931<br>Vault: Pre-1931 |

## 3.4 Surrounding Area General Characteristics

The Subject Property is located in a mixed commercial and residential area of downtown Chiloquin, Oregon. The surrounding areas to the north, south, and west are commercially developed with a railroad line running north to south nearby to the west followed by the Williamson River. Residential development is located to the east beyond the adjoining commercial building and to the west beyond the railroad line and the Williamson River. A surrounding land use map is included as **Figure 4**.

The surrounding area was developed with the majority of the current commercial and residential improvements in the late 1920s through early 1940s.

## 3.5 Current Uses of Adjoining Properties

A surrounding land use map is included as **Figure 4**, specific adjoining property uses are listed in the below table:

| TABLE 3 – ADJOINING AND ABUTTING PROPERTIES | | | |
|---|---|---|---|
| **Direction from Site** | **Occupant(s) Name** | **Current Use** | **Potential REC(s)** |
| South | Hirvi Building | Commercial | None |
| West | Former Texaco Gas Station | Commercial | None |
| Northwest | Vacant | Undeveloped/Vacant | None |
| North | Vacant | Commercial | None |
| Northeast | Undeveloped/Vacant | Undeveloped/Vacant | None |
| East | Vacant Multi-Commercial facility | Vacant Commercial | None |
| Southeast | Sky Lakes Wilderness Adventures | Commercial | None |
| Southeast | Klamath Tribal Courts & Child Support Enforcement Office | Municipal | None |

# 4 User Provided Information

## 4.1 Title Records

A complete title search was not requested by the User (Client, City of Chiloquin) as part of this assessment, nor did the User provide title record information. However, according to information accessed from the Klamath County Tax Assessor, the parcels which make up the Subject Property are currently owned by Klamath County. Ownership of the property was acquired as a tax foreclosure action. No information indicated the exact date of property acquisition; however, Mr. Rick Vaughn stated Klamath County has been associated with the property for two years. No other ownership information was available.

## 4.2 Environmental Liens or Activity and Use Limitations (AULs)

The User provided no information regarding property environmental liens or activity and use limitations. However, any liens and AULs associated with the property (if any) are anticipated to be addressed by the End User/Current Site Owner as part of the land/title transaction process.

## 4.3 Specialized Knowledge

The User provided no specialized knowledge regarding RECs associated with the Subject Property, other than indicating knowledge was limited to information provided in the previous environmental reports summarized in this report.

## 4.4 Valuation Reduction for Environmental Issues

No information was provided regarding a significant valuation reduction for environmental issues associated with the property **(Appendix B)**.

## 4.5 Owner, Property Manager, and Occupant Information

The Site is a vacant commercial assemblage of two parcels owned by Klamath County.

## 4.6 Reason for Performing Phase I

The Subject Site was selected by the City of Chiloquin as a potential location for future redevelopment (residential/commercial/manufacturing), or other public use. The City of Chiloquin is funding this assessment through the FY2021 EPA Brownfield grant to facilitate future property transfer and/or redevelopment. This assessment was performed to satisfy All Appropriate Inquiry under 40 Code of Federal Regulations (CFR) part 312, and the requirements of the Client and other interested parties with respect to evaluation of potential environmental impairment associated with the Site due to contamination by hazardous substances, controlled substances, or petroleum products on or near the Site.

# 5 Records Review

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the Site. Some records reviewed pertain not only to the Site, but also to properties within an additional approximate minimum search distance in order to help assess the likelihood of problems from migrating hazardous substances or petroleum products. Unless stated otherwise, the approximate minimum search distances used below were as specified in *ASTM 1527-13*.

## 5.1 Standard Environmental Record Sources

The regulatory agency database radius report discussed in this section, provided by EDR, Inc. (EDR), was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the Site. Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient for RECs, CRECs, HREC or de minimis condition determinations without conducting supplemental agency file reviews. The complete regulatory agency database report may be found in **Appendix C. Table 4** provides a summary of the findings of the database review:

| **TABLE 4 – STANDARD DATABASE REVIEW SUMMARY** | | | |
|---|---|---|---|
| **Regulatory Database** | **Minimum Search Distance** | **Site Listed?** | **No. of Sites Listed** |
| Federal National Priority List (NPL) | 1 mile | No | 0 |
| Federal Delisted NPL | 1 mile | No | 0 |
| Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list | ½ mile | No | 0 |
| Federal CERCLIS No Further Remedial Action Planned (NFRAP) | ½ mile | No | 1 |
| Federal Resource Conservation and Recovery Act (RCRA), Corrective Action facilities (CORRACTS) | 1 mile | No | 0 |
| Federal RCRIS non-CORRACTS Treatment, Storage, and Disposal Facilities (TSD) | ½ mile | No | 0 |
| Federal RCRA Generators | ¼ mile | No | 0 |
| Federal Institutional Control/Engineering Control Registry | ½ mile | No | 0 |
| Federal Emergency Response Notification System (ERNS) list | Target Property | No | 0 |
| Federal Facility Index System/Facility Registry System (FINDS) | 1 mile | No | 0 |
| Enforcement & Compliance History Information (ECHO) | 1 mile | No | 2 |
| State CERCLIS (ECSI & CRL) | 1 mile | Yes | 15 |
| State Landfill or Solid Waste Disposal Sites | ½ mile | No | 0 |
| State and Tribal Leaking Underground Storage Tanks (LUST) | ½ mile | No | 3 |

| TABLE 4 – STANDARD DATABASE REVIEW SUMMARY | | | |
|---|---|---|---|
| **Regulatory Database** | **Minimum Search Distance** | **Site Listed?** | **No. of Sites Listed** |
| State and Tribal Registered Underground/Aboveground Storage Tanks (UST) | ¼ mile | No | 5 |
| State Institutional Control/Engineering Control Registry | ½ mile | No | 2 |
| State & Tribal Voluntary Cleanup Site (VCP) database | ½mile | No | 3 |
| Emergency Release Reports (SPILLS, HMIRS, OR HASMAT) | Target Property | No | 0 |
| State Brownfield Sites | ½ mile | No | 3 |
| US Brownfields | ½ mile | No | 1 |

The database search identified thirty-six (36) database listing(s) located within a one-mile radius of the Site. Several of the listed facilities represent a REC or warrant further discussion due to environmental concerns based on distance, anticipated direction of groundwater flow, and/or anticipated risk of contamination. Further details regarding these properties listed on the EDR database that are within a ¼ mile of the Site are provided below.

- **Former Markwardt Building (REC #1)**

Location: 103 Chocktoot Street
On-Site Listing

Summary: The Site is listed on the ODEQ Environmental Cleanup Site Information database (ECSI) (ODEQ ID# 6562) and Brownfield database. These listings are associated with the Site's entry into the Oregon Voluntary Cleanup Program (VCP), approved in the Voluntary Letter Agreement on June 3, 2021. Subsurface environmental assessments activities were subsequently completed by Cardno in July of 2021, and included advancing nine soil borings, installing five temporary groundwater monitoring wells, and completion of a ground-penetrating radar (GPR) study for abandoned USTs. Ten soil samples and six groundwater samples were collected from the soil borings and monitoring wells, and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyl's (PCBs), and total petroleum hydrocarbons (GRO/DRO/RRO). Based on the GPR study and analytical results of soil and groundwater samples, Cardno determined the likely presence of UST(s), in-ground hydraulic lifts, and oil-change pit on the Subject Property, and an associated petroleum product release (below ODEQ Risk-based Cleanup Criteria). Although the findings from Cardno's investigation largely mitigate the potential for hazardous substance and petroleum impact at the Site at concentrations requiring corrective action, the presence of abandoned USTs, hydraulic lifts, and the oil-change pit represents a potential threat for future petroleum impact to the subsurface. As such, these features are considered a REC requiring further assessment/proper decommissioning in accordance with ODEQ regulations. Cardno's Phase II ESA report is discussed in further detail in Section 5.3.3.

- **Chiloquin Texaco/Smith Daniel Gasoline Service Station (LUST ID# 18-94-0030)**

Location: 103 East Chocktoot Street
Adjoining to the west across North First Avenue

Summary: This facility operated multiple UST systems dating back to at least the 1980s. In 1994, four petroleum (gasoline and diesel) USTs ranging in size from 550- to 2,000-gallons were decommissioned by removal and replaced with a new UST system. Soil and groundwater sampling conducted during the 1994 closure activities discovered a release of petroleum products from the on-premise UST system. This release was reported to ODEQ, and underwent further subsurface investigation and corrective action under regulatory oversight. In 2017, this facility decommissioned the UST system installed in 1994, consisting of one 6000-gallon UST and one 6,000/4,000-gallon compound UST. Samples collected during the 2017 decommissioning confirmed the presence of petroleum constituent impact in soil and groundwater. Groundwater wells installed during this investigation were surveyed and measured groundwater flowing to the northwest away from the Site. These conditions were reported to ODEQ and issued a no further action status for the UST decommissioning and associated petroleum release. Further, no concentrations of petroleum products were reported above ODEQ corrective action thresholds in groundwater samples collected from the Site in July 2021. Therefore, this facility is mitigated as a REC due to the groundwater sample results from the Site, the regulatory review and closure of this facilities historical UST system and associated release, and documented groundwater flow direction to the northwest.

- **Union Oil Bulk Plant**

Location: NW Corner of 1st Avenue and Maple Street
Located approximately 315 feet southwest and topographically cross gradient of the Subject Property

Summary: The facility is listed in the following environmental database records: ODEQ ECSI and VCP (ODEQ ID# 3065), Brownfields, and FINDS databases. According to the EDR database report, this property was reportedly occupied by a series of bulk oil distribution plant operators from 1984 through 2005. Field reconnaissance proved this facility is no longer in operation and the property is now vacant land. ODEQ records show that four gasoline USTs and one diesel UST were removed from the property in 1991. Soil samples collected during closure activities discovered petroleum constituent benzene above ODEQ corrective action thresholds; however, groundwater sampling at the Site in July 2021 did not discover benzene concentrations above cleanup thresholds or laboratory method detection limits. Further, groundwater sampling and remedial actions were performed on this property between the early 2000s and 2021, ultimately leading to ODEQ issuing a no further action determination letter on January 28, 2013. Based on the closed regulatory status and groundwater sampling results from this facility and the Site, the historical bulk oil distribution operations on this property are not considered REC.

- **Modoc Motors**

Location: 0 Chocktoot Street

Located approximately 425 feet northwest and topographically downgradient of the Subject Property

Summary: The facility is listed on the ODEQ ECSI database (ODEQ ID# 5402) . According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as a former auto repair facility in August 2010. However, no violations or releases have been reported for this facility. Based on the distance, lack of documented releases, and inferred groundwater flow direction, this facility does not appear to have impacted the Subject Property.

- **May-Slade Oil Co/Bulk Shell/UPRR Bulk Plant**

Location: 123 Chocktoot Street
Located approximately 300 feet west and topographically cross gradient of the Subject Property

Summary: The facility is listed on the ODEQ's ECSI (ODEQ ID# 2435) and LUST (ODEQ ID# 18-91-0057) databases. Field reconnaissance proved this property located west of the Site across the railroad tracks, and is undeveloped/ vacant land. According to review of regulatory files, this facility historically operated by Shell Oil then May-Slade as a bulk petroleum distribution company from the 1980s through 2005. The UST system on the property was decommissioned in 1991, and a petroleum product release was discovered during closure activities. The release was reported to ODEQ and underwent approximately 10 years of groundwater monitoring and corrective actions under regulatory oversight. The facility was issued a no further action status by ODEQ in a letter on January 28, 2013. Further, no concentrations of petroleum products were reported above ODEQ corrective action thresholds in groundwater samples collected from the Site in July 2021. Based on the distance, closed regulatory status, and recent groundwater sampling data from the Site, this historical facility is not considered a REC.

- **Chiloquin Agency Lake Fire District**

Location: 156 South 2nd Avenue
Located approximately 250 feet southwest and topographically cross gradient of the Subject Property

Summary: The facility is listed in the EDR database as an AST and Hazardous Substance Information Survey (HSIS) facility for storage of compressed oxygen, a flammable compound. Based on the gaseous nature of compressed air and non-hazardous characteristics of the AST contents (oxygen), this listing will not result in adverse impact to the Subject Property and is not considered a REC.

- **Auto Repair – Chiloquin (separately listed as Chocktoot Street Petroleum Releases)**

Location: 220 East Chocktoot Street
Located approximately 700 feet west and topographically cross gradient of the Subject Property

Summary: The facility is listed on the ODEQ ECSI (ODEQ ID# 5389 & 5407) for cleanup of petroleum impacted soils discovered on a former auto-repair property during

Oregon Department of Transportation (ODOT) bridge work. Field reconnaissance proved this listing is located over 700 feet west of the Site on the southeast corner of the West Chocktoot Street Bridge, crossing the Williamson River. This facility is not considered a contaminant threat to the Site based on distance and the absence of petroleum constituents reported in recent groundwater samples collected from the Subject Property. Therefore, this listing is not considered a REC.

- **Chiloquin Standard Oil Bulk Plant**

Location: Chocktoot Street
Located approximately 300 feet west and topographically cross gradient of the Subject Property

Summary: The facility is listed on the ODEQ ECSI and VCP databases (ODEQ ID# 2559), Brownfields and FINDS databases. Regulatory file review and field reconnaissance, proved this listing is associated with a commercial property located west of the Site across the railroad tracks, currently occupied by Building America. According to review of regulatory files, this facility historically operated as a bulk petroleum distribution company, with a reported petroleum product release in 2000. The release was assessed and issued a no further action status by ODEQ in a letter on March 23, 2004. Further, groundwater was measured flowing to the southwest away from the Site. This facility is mitigated as a contaminate threat to the Site based on the distance and hydraulic downgradient location with respect to the Subject Property and closed regulatory status. Therefore, this historical facility is not considered a REC.

- **Telephone Utilities of Eastern Oregon**

Location: Southwest corner of South 2nd Avenue and East Yahooskin Street
Located approximately 120 feet northeast and topographically cross gradient of the Subject Property

Summary: The facility is listed with ODEQ as a UST facility (ODEQ ID#3505). According to the Environmental Database Resources database report, this facility utilized one UST of unknown size and contents that was reportedly decommissioned. Cardno reviewed ODEQ's list of registered tanks but information for this facility was not ascertainable. The potential for this historical facility's UST system to impact the Site is further mitigated by the absence of petroleum product constituents in groundwater samples collected from the Subject Property in July 2021. Based on the on the above information, this facility is not considered a contaminant threat to the Subject Property.

- **Chiloquin Cleaning & Pressing**

Location: Southwest corner of East Chocktoot Street and South 2nd Avenue
Located approximately 85 feet southeast and topographically upgradient of the Subject Property

Summary: The facility is listed on ODEQ's ECSI database (ODEQ ID#3182) and the FINDs database. Field reconnaissance proved this property is no longer operating as a dry-cleaning facility. According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as a former dry-cleaning facility in November 2001. The potential for impact to the Site

from this historical facility is mitigated by recent soil and groundwater sampling completed on the Subject property in July 2021 did not discover hazardous substances specific to dry-cleaning chemicals above laboratory method detection limits. This facility is mitigated as a contaminant threat to the Site based the listings closed status and the analytical results from the recent soil and groundwater samples collected on the Subject property. As such, this historical facility is not considered a REC.

- **Tony Reyes**

Location: 123 South 3rd Street
Located approximately 450 feet south and topographically cross gradient of the Subject Property

Summary: The facility is listed with the EPA as a Resource Conservation and Recovery Act – Non-Generator / No Longer Regulated (RCRA NonGen/NLR) facility (EPA ID# ORSTATE06675). According to the Environmental Database Resources report, this facility is no longer a RCRA generator, and no other information is provided. Based on the lack of reported releases and absence of hazardous substances reported in groundwater samples collected from the Subject Property, this facility is mitigated as a contaminant threat to the Site and is not considered a REC.

- **Modoc Motors**

Location: 0 Chocktoot Street
Located approximately 425 feet northwest and topographically downgradient of the Subject Property

Summary: The facility is listed on ODEQ's ECSI database (ODEQ ID# 5402). According to the EDR report, ODEQ added this site to the ECSI database for tracking as a former auto repair facility in August 2010. However, no violations or releases have been reported for this facility. Based on the distance, lack of documented releases, and absence of hazardous substances reported in groundwater samples collected from the Subject Property in July 2021, this facility is mitigated as a contaminant threat to the Site and is not considered a REC.

- **Klamath County School District**

Location: 131 South 3rd Street
Located approximately 615 feet southeast and topographically cross gradient of the Subject Property

Summary: The facility is listed in the EDR as an AST and Hazardous Substance Information Survey (HSIS) facility. According to the EDR report, this facility utilizes one AST of propane of unknown size. Based on the gaseous nature of propane, this listing is unlikely to result in adverse environmental impacts to the Site and is not considered a REC.

- **Wampler Logging**

Location: 212 North Klamath Avenue
Located approximately 620 feet northwest and topographically downgradient of the Subject Property

Summary: The facility is listed on ODEQ's ECSI database (ODEQ ID# 4727) and FINDs database. According to the EDR report, ODEQ added this site to the ECSI database for tracking as an active logging facility in November 2006. Additionally, EDR reports this facility is no longer a RCRA generator and no other information is provided. Based on the distance, lack of documented releases, and absence of hazardous substances reported in groundwater samples collected from the Subject Property in July 2021, this facility is mitigated as a contaminant threat to the Site and is not considered a REC.

- **Clyde's Fairway Market**

Location: 323 Chocktoot Street
Located approximately 1,170 feet northwest and topographically downgradient of the Subject Property

Summary: The facility is listed on ODEQ's ECSI database (ODEQ ID# 4078). According to the EDR report, ODEQ added this site to the ECSI database for tracking as a former service station facility in March 2004. However, based on distance and groundwater flow direction with respect to the Site, and absence of hazardous substances reported in groundwater samples collected from the Subject Property in July 2021, this facility is mitigated as a contaminant threat to the Site and is not considered a REC.

The remaining sites are located greater than 1,300 feet (¼ mile) away, and due to distance, regulatory information, and/or inferred groundwater flow direction, are not likely to pose an environmental risk to the Site.

## 5.2 Physical Setting Sources

The Subject Property's physical setting was reviewed during this assessment to determine the existence of potential adverse effects from the existence of surface waters, flood plains, wetlands and geographic setting. A USGS Topographic Map is included as **Figure 1**, and physical setting maps are included in **Appendix B**.

The USGS 7.5-minute series topographic map of Chiloquin, Oregon, depicts the Site as predominately flat with the majority of surrounding land sloping slightly to the south and west towards the Williamson River, located 750 feet west of the Site. According to the USGS topographic map, the elevation of the Site is approximately 4,195 feet above mean sea level (MSL). Groundwater flow has been measured on the vicinity flowing to the southwest. A USGS Topographic Map is included in **Figure 1**.

The Site is predominately flat. Little, if any, stormwater discharges on-Site from off-Site areas. Drainage for the Site is provided by infiltration and overland flow. Storm water from the impervious surfaces (roofs and building foundations) is directed onto landscaped areas of the Site or into the adjoining paved streets. Based on mapped topographic contours, the inferred primary direction of surface drainage for the Subject Property is determined to be generally south or west.

The FEMA Flood Insurance Rate Map for the Site was reviewed online and lists the Site in Unshaded Flood Zone X, defined as "areas determined to be outside the 100- and 500-year floodplain." No areas of significant stormwater ponding, erosion, or localized flooding concerns due to inadequate drainage were observed during the Site inspection.

According to the United States Geologic Survey, surficial sediments at the Site consist of Lobert sandy loam, defined as "a Lobert ashy sandy loam, on a forested north facing terrace" (National Cooperative Soil Survey), underlain by alluvial deposits. The USGS geologic survey for Oregon defines the alluvial material as the following. "Sand, gravel, and silt forming flood plains and filling channels of present streams. In places includes talus and slope wash. Locally includes soils containing abundant organic material, and thin peat beds." Soil survey inquiry results used for physical setting information were obtained via the web-based USDA National Resources Conservation Survey and included as **Appendix B**.

## 5.3 Historical Records Sources

### 5.3.1 Aerial Photographs, Topographic and Fire Insurance Maps

A review of historical aerial photographs (**Appendix E)**, Historical Topographic Maps (**Appendix F**) and Fire Insurance Maps (**Appendix G**) obtained from EDR was completed. The findings of review of the historical aerial photos and topographic maps are chronologically summarized in **Table 5**.

Fire Insurance Maps have been produced since the late 1800s to provide information relative to fire hazards on insurable property. These maps often indicate locations of underground and aboveground gasoline tanks, storage facilities for flammable chemicals, such as dry cleaners, paint shops, maintenance and garage facilities, as well as historical information on occupants of buildings, unavailable through other sources. Production of these maps typically was limited to the immediate vicinity of downtown urban areas. Fire Insurance Maps available for the area including the Subject property for the year 1931.

**TABLE 5 – AERIAL PHOTOGRAPH, TOPOGRAPHIC AND FIRE INSURANCE MAP REVIEW SUMMARY**

| Period | Source(s) | Identified Historical Uses | | Comments |
|---|---|---|---|---|
| | | Subject Site | Surrounding Area | |
| 1931 | Sanborn FIM | A **large auto repair/garage building** is depicted on the Subject Property. An area at the southwest corner within the auto repair building is labeled **"Gas & Oil".** A second building adjoins the auto repair building to the north. Additionally, a third building is depicted on the northern portion and labeled "Rooms" on the Subject Property. | A **Printing facility** is located to the east. A **Cleaning facility** is located to the southeast. The S.P.CO. Railroad is located west of the Subject Property. A Shell Oil Co. facility with one steel oil tank and oil warehouse is located to the west. An auto repair garage is located to the southwest. | The on-Site "Gas & Oil" and auto garage (**REC #1**) is considered a REC. |
| 1953 | Aerial Photograph | A commercial building appears on the Subject Property. | Commercial buildings are to the south and west. Residential buildings are in the surrounding area. A railroad and river appear to the west. | No additional RECs noted. |

| TABLE 5 – AERIAL PHOTOGRAPH, TOPOGRAPHIC AND FIRE INSURANCE MAP REVIEW SUMMARY | | | | |
|---|---|---|---|---|
| **Period** | **Source(s)** | **Identified Historical Uses** | | **Comments** |
| | | **Subject Site** | **Surrounding Area** | |
| 1955 | Aerial Photograph | Blurry; similar to previous aerial photograph. | Blurry; similar to previous aerial photograph. | No additional RECs noted. |
| 1957 | Topographic Map | A building is depicted on the Subject Property | Several commercial buildings and residential dwellings appear in the surrounding area. A railroad and river appear to the west. A water tower is located to the east. | No additional RECs noted. |
| 1975 | Aerial Photograph | Similar to previous aerial photograph. | Several commercial buildings appear to have been removed to the southeast. A commercial building appears at the north adjoining property. | No additional RECs noted. |
| 1982 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the south. | No additional RECs noted |
| 1994 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the northeast and east. A **gas station** appears to the west. | The off-site gas station is evident |
| 1998 | Topographic Map | Similar to previous aerial photograph. | More residential and commercial structures in the surrounding area. The Chiloquin Airfield is depicted to the west. | No additional RECs noted. |
| 2000 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the west. | No additional RECs noted. |
| 2006 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears in the surrounding area. | No additional RECs noted. |
| 2009 | Aerial Photograph | Similar to previous aerial photograph. | Land clearing is visible to the northeast and south. | No additional RECs noted. |
| 2012 | Aerial Photograph | Similar to previous aerial photograph. | Similar to previous aerial photograph. | No additional RECs noted. |
| 2014 | Aerial Photograph | Similar to previous topographic map. The on-site structure is depicted. | Similar to previous topographic map. No structures are depicted on the map. | No additional RECs noted. |
| 2016 | Aerial Photograph | Similar to previous aerial photograph. | Similar to previous aerial photograph. | No additional RECs noted. |

Based on review of historical maps, the existing garage on the Subject Property operated as an automotive repair garage and gasoline filling station dating back to at least 1931. Two additional commercial buildings were historically located on the northern portion of the Site with frontage to North 1st Street; however, these structures are no longer present with debris and a

vault from the adjoining structure reaming on-site. The historical gasoline service station and automotive repair operations are discussed in detail throughout this report. Although the potential impacts from hazardous substance and/or petroleum products has been largely mitigated by recent soil and groundwater analytical sampling discussed in further detail in Section 5.3.3., the abandoned USTs, in-ground hydraulic lifts, and oil-change pit associated with the auto garage remain on-Site and have the potential further impact the subsurface with petroleum products( **REC#1)**.

The surrounding area was developed from as early as 1931 with much of the commercial and residential improvements evident during the Site inspection. Industrial/ bulk oil distribution facilities located to the west along the railroad line were evident through the early 2000's, then decommissioned by 2012. The oil distribution operations are mitigated by soil and groundwater analytical testing and regulatory closure, and is discussed in further detail in Section 5.1.

### 5.3.2 City Directories

Historical City directories are researched to aid in identifying changes in land use based on the type of businesses listed as operating on the Site and surrounding area. Common business operations representing a potential for the use, disposal, or release of hazardous substances and/or petroleum products include automotive repair, dry cleaning, gasoline/service stations, and manufacturing. City directories were available for the surrounding area dating back 1992, with findings presented in the below table:

**TABLE 6 – CITY DIRECTORIES REVIEW SUMMARY**

| Directory Date | City Directory Identified Historical Uses | | Comments |
|---|---|---|---|
| | Site (4685 East Holmes Rd) | Surrounding Area | |
| 1992 | No Listing | E. Yahooskin St.: Residential<br>N. 1st Ave.: Residential | No RECs noted. |
| 1995 | No Listing | 119 E. Yahooskin St.: Chiloquin Head Start<br>220 W. Chocktoot St.: Paul's Automotive Service<br>119 W. Chocktoot St.: Beas Antiques & Refinishing<br>323 W. Chocktoot St.: Clyde's Fairway Market | No RECs noted. |
| 2000 | No Listing | 210 S. 1st Ave.: Chiloquin Alternative Education Center<br>216 S. 1st Ave.: Chiloquin Branch Library<br>219 N. 1st Ave.: Chiloquin Awareness Committee Hoops Activity Center | No RECs noted. |
| 2005 | No Listing | 228 S. 1st Ave.: United States Postal Service | No RECs noted. |
| 2010 | No Listing | S. 1st Ave.: Chiloquin Community Correction<br>414 W. Chocktoot St.: Oregon Reflections | No RECs noted. |
| 2014 | No Listing | 118 W. Chocktoot St.: Klamath Tribal Court<br>**201 W. Chocktoot St.: Chiloquin Shell & Food Mart**<br>323 W. Chocktoot St.: Clyde's Fairway Market<br>127 S. 1st Ave.: Chiloquin Agency Lake Fire District<br>228 S. 1st Ave.: United States Government<br>221 N. 1st Ave.: Klamath Water Commission<br>119 E. Yahooskin St.: Head Start Klamath Tribes | The Chiloquin Shell & Food Mart, discussed a low environmental concern in 5.1 |

The detailed City Directory report is included in **Appendix G**.

### 5.3.3 Prior Reports

The following previous reports were reviewed during the update of this Phase I ESA. Excerpts of Cardno's reports are provided as attachments in **Appendix I**.

#### *5.3.3.1 Cardno – May 2021 Phase I ESA*

Cardno previously competed a Phase I ESA on the Site in May 2021. In summary, Cardno identified the following environmental conditions specific to RECs:

**On-Site REC**

1. According to the 1931 Sanborn FIM, the building was used as an auto repair garage and an area with-in the on-site building, at the southwest corner, is labeled "Gas & Oil". Further, during site reconnaissance, Cardno personnel identified a potential UST vent pipe attached to the west interior wall of the on-site building. Therefore, there is potential for a UST(s) to exist on the property and said tank may have impacted the soil, groundwater, and/or vapor at the Subject Property.

2. The remains of three in-ground hydraulic lifts and one oil-changing pit were observed in the building. According to the 1931 Sanborn Fire Insurance Map (FIM), the on-site building is labeled as being an auto repair/garage facility. Additionally, based on the age of the building, this time-frame predates the regulation of the storage/disposal of hazardous substances such as used oil and other non-regulated automobile chemicals. Based on the age and duration of use, the in-ground lifts and unknown chemical management and disposal practices associated with historic operations, site soil, groundwater, and/or vapor may have been impacted by historic site operations.

3. During site reconnaissance, Cardno identified a potential vent pipe in the interior of the building along the eastern wall. This could be an indication for a UST and/or heating oil tank to exist on the Subject Property. Based on the age and duration of the former use of the building, there is potential for a UST/heating oil tank on the property that may have impacted the soil, groundwater, and/or vapor at the Subject Property.

**Off-Site RECs**

4. According to the 1931 Sanborn FIM, a Printing facility is located approximately 80 feet to the east. The length of operation for this facility is unknown. There is potential for a release from this facility.

5. According to the 1931 Sanborn FIM, a Cleaning facility is located approximately 120 feet to the southeast. The length of operation for this facility is unknown. There is a potential for a historic release from this facility.

**Off-site HRECs**

6. According to Oregon Department of Environmental Quality (ODEQ) records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989 which predates UST registration. These tanks were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. The new tanks were subsequently removed in 2017. Post-excavation confirmation sampling conducted in 2017 and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low. On July 22, 2019, ODEQ granted an NFA determination letter for the Chiloquin Texaco site. Based on the issuance of an NFA, and given the assumed ground water-flow direction away from the subject site, this facility is considered a historical REC.

#### *5.3.3.2 Cardno – May 2021 Asbestos and Lead-Based Paint Survey*

While on-Site for the Phase I ESA in May 2021, Cardno competed an asbestos and lead-based paint survey. In summary, Cardno identified the following environmental conditions specific to asbestos and lead-based paint:

**Asbestos-Containing Materials**

Asbestos containing materials (ACMs) were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.

Overall, given the state of the buildings, most of these materials were in good to fair condition. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor.

The following suspect building materials were not sampled and should be considered presumed asbestos containing materials (PACM):

- Exterior building debris from former attached north addition, totaling approximately 650 cubic yards (CY).
- The building to the north was constructed around the same time as the remaining building, and the building debris appeared to have suspect materials. Therefore, the building debris/rubble should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

**Lead-Based Paint**

Lead-based paint (LBP) was identified on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

Most of the identified painted surfaces were in poor condition, with peeling and deterioration noted.

#### *5.3.3.3 ODEQ – Voluntary Cleanup Program*

Based on the findings from the Phase I ESA and asbestos/lead-based paint survey, The City of Chiloquin entered the Site into the Oregon Voluntary Cleanup Program, which was approved by ODEQ in a letter dated June 3, 2021.

ODEQ's letter is attached in **Appendix I**.

#### *5.3.3.4 Cardno – August 2021 Phase II ESA and Debris Pile Sampling*

Cardno returned to the Site in August 2021 to collect soil and groundwater samples for VOC, SVOC, metal, PCB, and total petroleum hydrocarbon (gasoline-range organic, diesel-range organic, and residual oil-range organic) analysis; in addition to building material samples collected form the debris pile located just north of the garage.

During the Phase II ESA field work, Cardno advanced nine soil borings, installed five temporary one-inch groundwater monitoring wells, and oversaw a GPR study in areas suspected of containing abandoned USTs. In summary, the subsurface investigation discovered the following:

- Laboratory analysis of soil samples reported select VOC (**1,2,4-trimethybenzene** and **xylenes (total**), RCRA 8 metal (**barium**, **chromium**, **lead**, and **mercury**), DRO, and RRO concentrations were present above laboratory reporting limits. Of the aforementioned detections, only lead exceeded ODEQ Risk-Based Cleanup (RBC) threshold for leachability.

  SVOCs, PCBs, and GRO concentrations were not present above laboratory reporting limits in soil samples analyzed from the Site.
- Laboratory analysis of groundwater samples reported select **GRO**, **barium**, **chromium**, and **lead** above laboratory reporting limits but below all ODEQ RBCs. VOCs, SVOCs, DRO, and RRO concentrations were not reported above laboratory reporting limits in groundwater samples analyzed from the Site.
- The GPR study identified anomalies consistent with a UST in the vicinity of the former filling station, located in the southwest corner of the Subject Property.
- Building material samples collected from the debris pile were analyzed for asbestos and toxicity characteristic leaching procedure for lead. Asbestos was identified in plaster skim coating prevalent throughout the pile. Toxicity characteristic concentrations of lead did not exceed concentrations listed in 40 CFR § 261.24, Table 1 – Maximum Concentrations for the Toxicity Characteristic.

# 6 Site Reconnaissance

The following is a summary of visual and/or physical observations of the property noted during Cardno's visit to the site on November 4, 2021. Representative photographs consistent with current site conditions are provided in **Appendix A**.

## 6.1 Methodology and Limiting Conditions

Mr. Keith Ziobron, P.E., and Ms. Nadya Vicente with Cardno, conducted the site reconnaissance on November 4, 2021. The site reconnaissance consisted of visual and/or physical observations of the Site and improvements; adjoining properties as viewed from the property; and, the surrounding area based on visual observations made during the trip to and from the property.

No limiting conditions were identified during the site reconnaissance, and all exterior and interior areas were inspected.

## 6.2 Hazardous Substance Use, Storage, and Disposal

Cardno did not observe any hazardous substance use, storage, or disposal at the Subject Property. This facility was occupied by an auto repair garage, between approximately 1930 to the 1960s, and this time-frame predates regulations set forth by state regulations of the disposal of hazardous substances and other non-regulated chemicals. However, soil and groundwater samples collected from the Site in August 2021 did not indicate the presence of hazardous substance impacts above laboratory method detection limits and/or ODEQ RBCs. Therefore, the potential for hazardous subsurface impact to the Site subsurface from historical automotive repair operations is mitigated as a contaminant threat to the Subject Property, and is not considered a REC.

No further indication so hazardous substance use, storage, or disposal were observed on the Site or nearby properties.

## 6.3 Underground Storage Tanks (USTs)

Cardno confirmed evidence of USTs in the southwest area and along the interior of the east wall. It is likely residual petroleum products are present in the UST, which have the potential to further impact the Site subsurface. As such, the presence of abandoned USTs on the Subject Property is considered a REC (**REC #1**).

## 6.4 Aboveground Storage Tanks (ASTs)

Cardno did not observe indications of ASTs on the Site or nearby properties.

## 6.5 Other Petroleum Products

Cardno observed the presence of in-ground hydraulic lifts and an oil-change pit, located in repair bays of the Site's former auto-repair garage. It is likely residual petroleum products are present in these subgrade features, which have the potential to further impact the Site subsurface. As such they are considered a contaminant threat to the Site and discussed throughout this report as a REC (**REC#1**).

## 6.6 Polychlorinated Biphenyls (PCBs)

Cardno observed the remains of in-ground hydraulic lifts within the on-site building (**REC #1**). No other information was provided regarding the lifts. Based on its potential to contain PCBs hydraulic fluids, it has potential to impact the Subject Property subsurface.

Cardno observed pole-mounted transformer located on the east adjacent alleyway. The PCB status of the transformer is unknown. However, it appeared to be in good condition, with no evidence of staining nearby, and is located topographically downgradient from the Site.

In accordance with Title 40—Protection of Environment, Code of Federal Regulations, Chapter 1—Environmental Protection Agency, Subchapter R—Toxic Substance Control Act Part 761—PCBs, Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions, the owner of the electrical equipment is responsible for maintenance of the equipment and remediation of impacted environmental media in the event of a leak. Therefore, the risk associated with PCBs to the Subject Property is mitigated by the condition and ownership by the utility company.

## 6.7 Unidentified Substance Containers

Cardno did not observe unidentified substances containers on the Site or nearby properties.

## 6.8 Nonhazardous Solid Waste

The Site is vacant and does not generate solid waste.

Building debris was observed along the north exterior wall, associated with the collapse of the commercial building formerly adjoining the auto-repair garage north wall. These materials were sampled during Cardno's August 2021 Phase II ESA investigation, and contain asbestos-containing materials. No evidence of hazardous substance or petroleum product releases were observed.

Cardno further observed no evidence of illegal dumping or other solid wastes on the Site.

## 6.9 Wastewater

Cardno did not observe any indications of wastewater on the property.

## 6.10 Waste Pits, Ponds and Lagoons

Cardno did not observe any evidence of waste pits, ponds or lagoons on the Site.

## 6.11 Drains and Sumps

Cardno did not observe any evidence of any sumps or drains on the Site.

## 6.12 Septic Systems

Cardno did not observe any evidence of any septic systems on the Site.

## 6.13 Storm Water Management System

Cardno did not observe evidence of any storm water-management systems on the Site.

## 6.14 Wells

Cardno did not observe any monitoring or production wells on the Site.

# 7 Subsurface Vapor Migration

Hazardous gases (vapor) from subsurface sources, such as contaminated soil or groundwater can migrate into residential, commercial, and industrial buildings through any foundation type, including basements, crawlspaces, or slabs. According to EPA guidance, three conditions must exist for hazardous vapors to reach the interior of buildings from the subsurface environment underneath or near a building. First, a source of hazardous vapors must be present in the soil or groundwater underneath or near a building. Second, vapors must form and have a pathway along which to migrate toward the building. Third, entry routes must exist for the vapors to enter the building, and driving forces must exist to draw the vapors into the building.

Cardno considered the nature and extent of on-Site and nearby sources of potential subsurface vapor migration by evaluating the current and historical usage of the property, the construction type and history, the physical setting, and the potential sources of subsurface vapor migration through the review of regulatory agency database information that was summarized in Section 5.0.

Based on the evaluation of known or suspected releases of hazardous substances and/or petroleum products, their distance from the property, all potential pathways separated by roads with underground utilities, and soil type, the potential subsurface vapor migration sources were determined to represent a REC as stated in the May 17 2021 Phase I ESA report. However, soil and ground water analysis completed as part of the referenced Phase II ESA indicated that the potential for vapor intrusion is likely not a concern.

# 8 Interviews

To gather information on the Subject Site, Cardno sent out AAI questionnaires and conducted interviews. Information is provided below.

## 8.1 Questionnaires

An All Appropriate Inquiry – End User Questionnaire was completed by Ms. Teresa Foreman, representative for the City of Chiloquin. Ms. Foreman indicated the Site is currently vacant, and her knowledge is limited to information provided in previously completed environmental investigations, as summarized in this report. According to Ms. Foreman, the User will be purchasing the Subject Property form the current owner, Klamath County.

The completed All Appropriate Inquiry questionnaires, completed by Ms. Foreman is provided in **Appendix B.**

Further information is provided in Section 4.

## 8.2 Interviews

Cardno obtained completed interview questionnaire from the following persons:

- Rick Vaughn – Tax Collector and Property Manager for Klamath County
- Charlie Case – City of Chiloquin Public Works
- Fire Chief Michael Cook – Chiloquin Fire & Rescue

The completed All Appropriate Inquiry questionnaires, completed by Mr. Rick Vaughn is provided in **Appendix B.**

Mr. Rick Vaughn has been associated with the Subject Property for approximately two years. Mr. Vaughn states the property is approximately 0.51-acres and he believes the on-site building is approximately 12,316 sq. ft. He is not aware of the past uses of the property and that Klamath County obtained the property through tax foreclosure.

Mr. Charlie Case indicated the former Markwardt Brothers Garage was in operation from approximately the 1930s to the 1960s; a second-hand store in the 1970s; and Juniper wood products in the 1980s. Mr. Case stated the remains of the wood chips within the on-site building are from the Juniper wood products company that manufactured wooden boxes and wood chips for grills/barbeques. Mr. Case stated the southwest corner of the on-site building was utilized as a fueling stations between the 1930s to the 1950s. He also mentioned the roof of the former building attachment north of the on-site building had completely collapsed and the remainder of the building was demolished around 2015.

Cardno contacted Fire Chief Michael Cook of the Chiloquin Fire & Rescue Department in regards to any fires, spills, and/or incidents. Chief Cook stated there are no records on file for the Subject Property.

Open record request documentation and above-referenced questionnaires are provided in **Appendix C.**

# 9 Additional Scope Items

No sample collection or any other investigation for the purpose of determining the possible presence of asbestos, radon, mold, lead-based paint, and/or any other potential contaminants requiring specialized testing procedures or sampling were conducted during this assessment. No assessment was conducted for the possible presence or absence of wetlands and no determination is offered with regard to the suitability of the Site for development or for any other specific use or purpose.

# 10 Conclusions & Recommendations

Cardno has completed an update of the Phase I ESA of the Subject Property located at the northeast corner of North 1st Avenue and West Chocktoot Street, in Chiloquin, Oregon. This report has been prepared in accordance with 40 CFR Part 312 Standards and Practices for All Appropriate Inquiries and ASTM Standard Practices E1527-13 for Environmental Site Assessments.

## 10.1 Findings

Phase I ESA investigations seek to identify known or suspect RECs, HRECs, CRECs, and de minimis conditions. De minimis conditions are those that are judged to not present a material risk of harm to health or the environment. This assessment has revealed a series of on-Site RECs and non-Scope concerns in connection with the Site, as described below.

**On-Site RECs**

1. As noted in Cardno's May 2021 Phase I ESA, the Site formerly operated as an automotive repair garage and gasoline filling station. Based on the previous RECs identified in connection with this historical use and potential for resulting hazardous substance and/or petroleum product impact, the Subject Property's prospective purchaser (City of Chiloquin) requested entry into the Oregon Voluntary Cleanup Program. ODEQ accepted the Subject Property into the program in the Voluntary Letter Agreement on June 3, 2021 (ODEQ ID# 6462). Subsurface environmental assessments activities were subsequently completed by Cardno in July of 2021, and included advancing nine soil borings, installing five temporary groundwater monitoring wells, and completing a ground-penetrating radar study for abandoned underground storage tanks. Ten soil samples and six groundwater samples were collected from the soil borings and monitoring wells, and analyzed for hazardous substance, petroleum products, metals, and polychlorinated biphenyls. Based on the radar study and analytical results of soil and groundwater samples, Cardno determined the likely presence of underground storage tanks, in-ground hydraulic lifts, an oil-change pit on the Subject Property, and an associated petroleum product release (below Oregon DEQ Risk-based Cleanup Criteria). Although the findings from Cardno's investigation largely mitigate the potential for hazardous substance and petroleum impact at the Site at concentrations requiring corrective action, the presence of abandoned underground storage tanks, hydraulic lifts, and the oil-change pit represents a potential threat for future petroleum impact to the subsurface. As such, these features are considered a REC requiring further assessment and/or proper decommissioning in accordance with ODEQ regulations. Note: It is the City's intent to address these features using funds requested via application for a FY2022 EPA Brownfield Cleanup grant.

**Off-Site RECs**

Based on the finding of this Phase I ESA, in conjunction with data reviewed from Cardno's August 2021 Phase II ESA, no off-Site RECs were identified in connection with the Subject Property.

**Non-Scope Considerations**

Based on the findings of the this assessment, Cardno recommends the following actions to both facilitate redevelopment/reuse efforts on the Site and to protect future construction or

excavation workers if these features are inadvertently encountered, or for future Site occupants in the event they result in a future release to the Site subsurface:

- Based on the GPR report provided by GPR Data, the area of the potential UST anomaly should be further investigated. If a UST is discovered, said UST should be decommissioned and reported in accordance with Oregon Department of Environmental Quality (ODEQ) guidelines;
- The potential for an additional heating oil UST in the Subject Property's east area (building interior east wall) should be further evaluated by installing a test pit/exploratory excavation, and if confirmed, the UST should be decommissioned in accordance with ODEQ guidelines;
- The in-ground hydraulic lifts and oil-change pit should be decommissioned by removal;
- Any concrete or soil removed from the Site should be characterized and directed to an appropriately permitted landfill for disposal;
- The debris/rubble pile should be characterized as regulated asbestos waste, and should be removed from the Site by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations.

**Non-Scope: Asbestos-Containing Materials**

The following asbestos containing materials (ACMs) were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.
- A debris pile is located north of the existing auto-repair garage, associated with a collapsed building, which formerly adjoining the existing structure. Cardno collected representative samples from the material and asbestos was identified (exceeding 1%) in plaster skim coating prevalent throughout the pile. Based on these findings the file should be considered ACM for the purposes of disposal.

**Non-Scope: Lead-Based Paint**

Lead-based paint (LBP) was identified on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.
- Building material samples collected from the debris pile were analyzed for lead by toxicity characteristic leaching procedure. Toxicity characteristic concentrations of lead did not exceed concentrations listed in 40 CFR § 261.24, Table 1 – Maximum Concentrations for the Toxicity Characteristic.

## 10.2 Recommendations

Due to the potential for on-Site UST(s), lifts, and oil-change pit to contain remnant petroleum products, Cardno recommended the following actions to both facilitate redevelopment/reuse efforts on the Site and to protect future construction or excavation workers if these features are inadvertently encountered, or for future Site occupants in the event they result in a future release to the Site subsurface:

- Based on the GPR report provided by GPR Data, the area of the potential UST anomaly should be further investigated. If a UST is discovered, said UST should be decommissioned and reported in accordance with ODEQ guidelines;
- The potential for an additional heating oil UST in the Subject Property's east area (building interior east wall) should be further evaluated by installing a test pit/exploratory excavation, and if confirmed, the UST should be decommissioned in accordance with ODEQ guidelines;
- The in-ground hydraulic lifts and oil-change pit should be decommissioned by removal;
- Any concrete or soil removed from the Site should be characterized and directed to an appropriately permitted landfill for disposal;
- The debris/rubble pile should be characterized as regulated asbestos waste, and should be removed from the Site by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations.

# 11 References

## Standard Practice Guidelines

*American Society for Testing and Materials*
*"Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", Designation: E 1527-13 dated 2013*

*United States Environmental Protection Agency, 40 Code of Federal Regulations, Part 312, Standards and Practices for All Appropriate Inquiries.*

## Recorded Information Sources

*Environmental Data Resources, Inc.*
*Radius Report, Order Number 6717501, October 23, 2021*

*Environmental Data Resources, Inc.*
*Fire Insurance Map Report, Order Number 6717501, October 25, 2021*

*Environmental Data Resources, Inc.*
*Aerial Photo Decade Package, Order Number 6717501, October 27, 2021*

*Environmental Data Resources, Inc.*
*Historical Topographic Map Package, Order Number 6717501, October 22, 2021*

*Owner Interview/Environmental Questionnaire, April 12, 2021*
*Rick Vaughn, Klamath County*

*User Interview/Environmental Questionnaire, November 23, 2021*
*Teresa Foreman, City of Chiloquin*

## Site Information Sources

*United States Geologic Survey*
*Topographic map, 7.5-Minute, Chiloquin, OR, Georgia Quadrangles, dated 2017*

*Federal Emergency Management Agency (www.fema.gov)*
*Flood Insurance Rate Map for Klamath County, Oregon*
*Community Panel Number 410111 0001B, dated August 15, 1984*

*United States Fish and Wildlife Service (www.fws.gov)*
*National Wetlands Inventory*

*United States Department of Agriculture (USDA)*
*Natural Resources Conservation Service Custom Soil Resource Report*

*Google Earth (www.google.earth.com)*
*General property location map and current aerial*

*Klamath County Tax Assessors Office online (https://www.claytoncountyga.gov/)*
*Tax parcel information*

# 12 Qualifications/Signatures of Environmental Professional(s)

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. I certify that this report has been prepared in accordance with 40 CFR Part 312 and ASTM E 1527-13 Standard Practice for Environmental Site Assessments.

I further certify that, in my professional judgment, this report meets the requirements of 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries. I have the specific qualifications based on training, experience and registration to perform and/or assist in the assessment of a property of the nature, history and setting of the Subject Site.

Cardno

Sam Urban
Project Manager

Date: November 29, 2021

I declare this "*Phase I Environmental Site Assessment*" Report meets or exceeds Cardno's standards for editorial content, technical accuracy, and quality assurance verification. All data and calculations presented herein have been checked for accuracy and the basis for all conclusions and recommendations have been described.

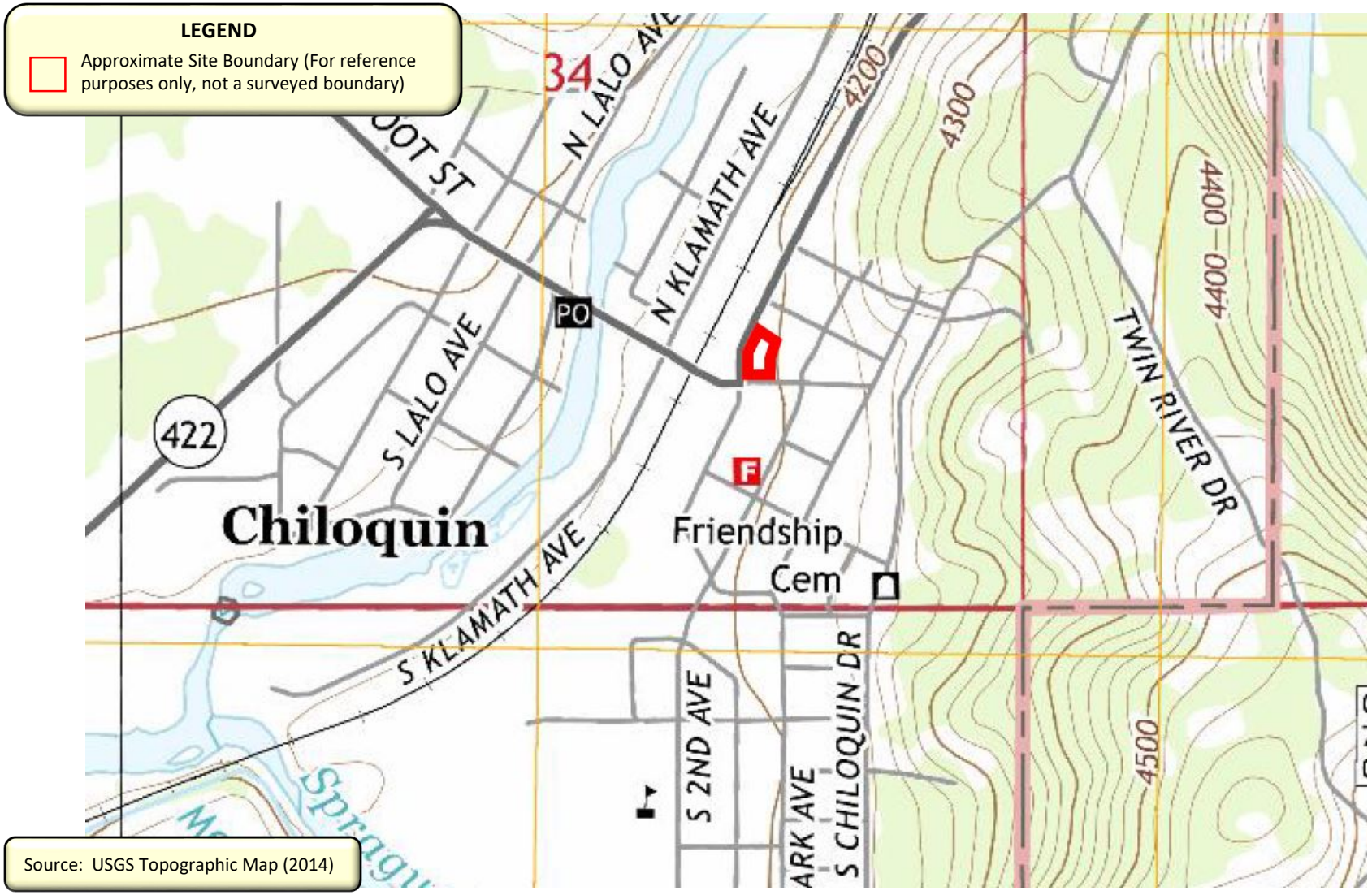
Cardno

Keith Ziobron, P.E.
Senior Principal – Environmental Brownfields

Date: November 29, 2021

FORMER MARKWARDT
BROTHERS GARAGE

# FIGURES

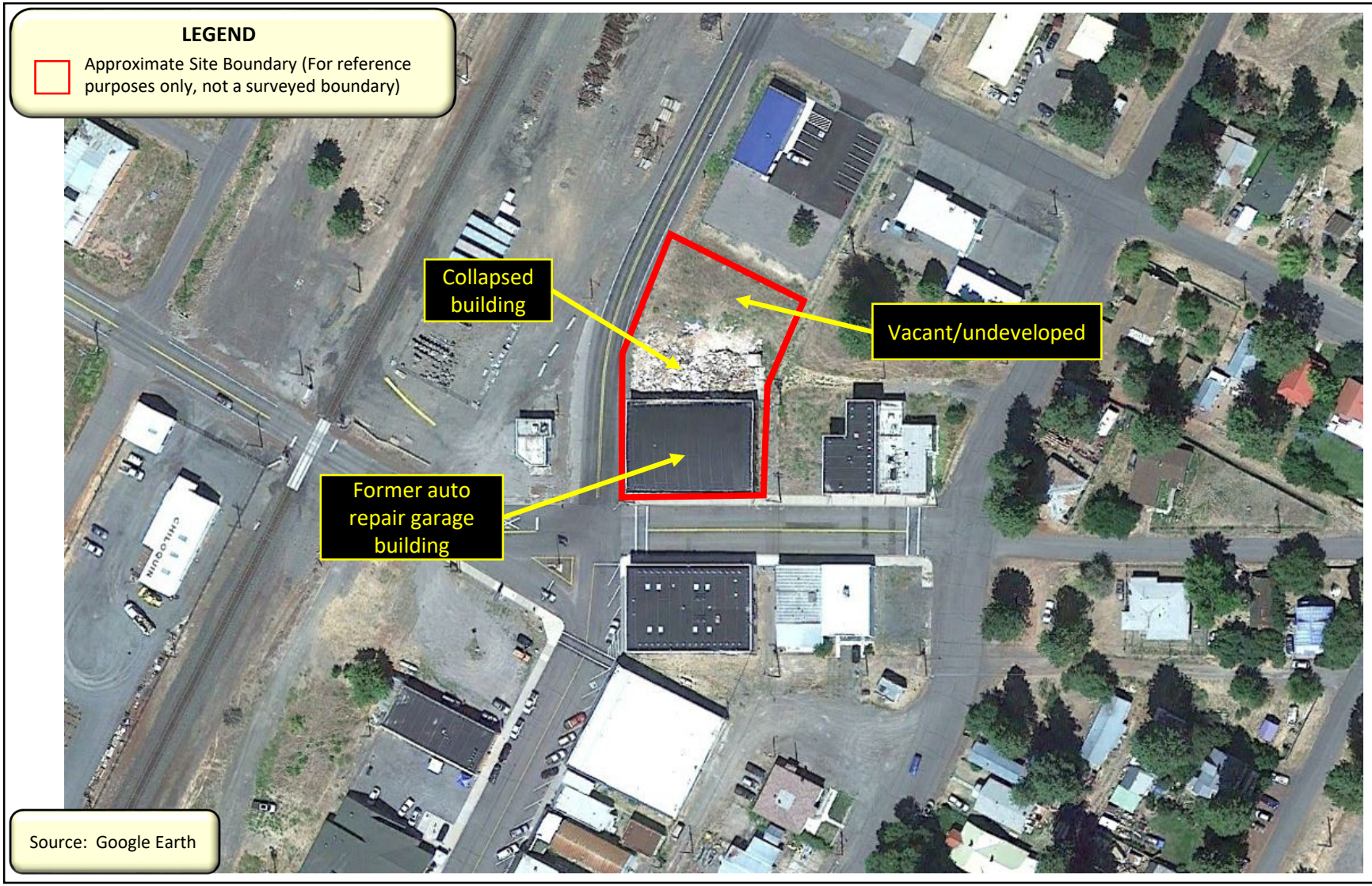



Cardno
Shaping the Future

N

**Phase I ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ200**

**Figure 1**
**USGS/Site Vicinity Map**

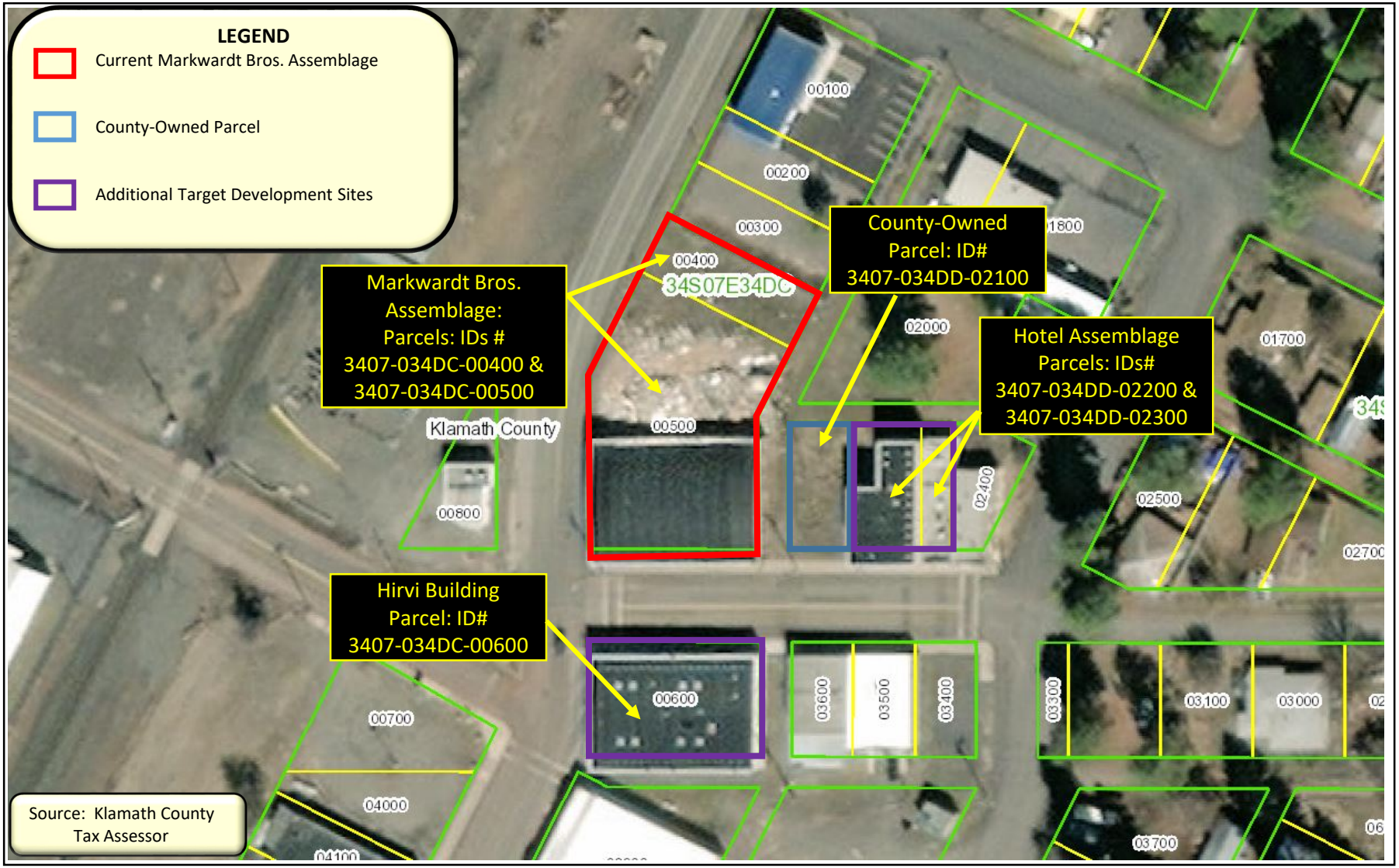



Cardno
Shaping the Future

N

**Phase I ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ200**

**Figure 2**
**Site Boundary Map**

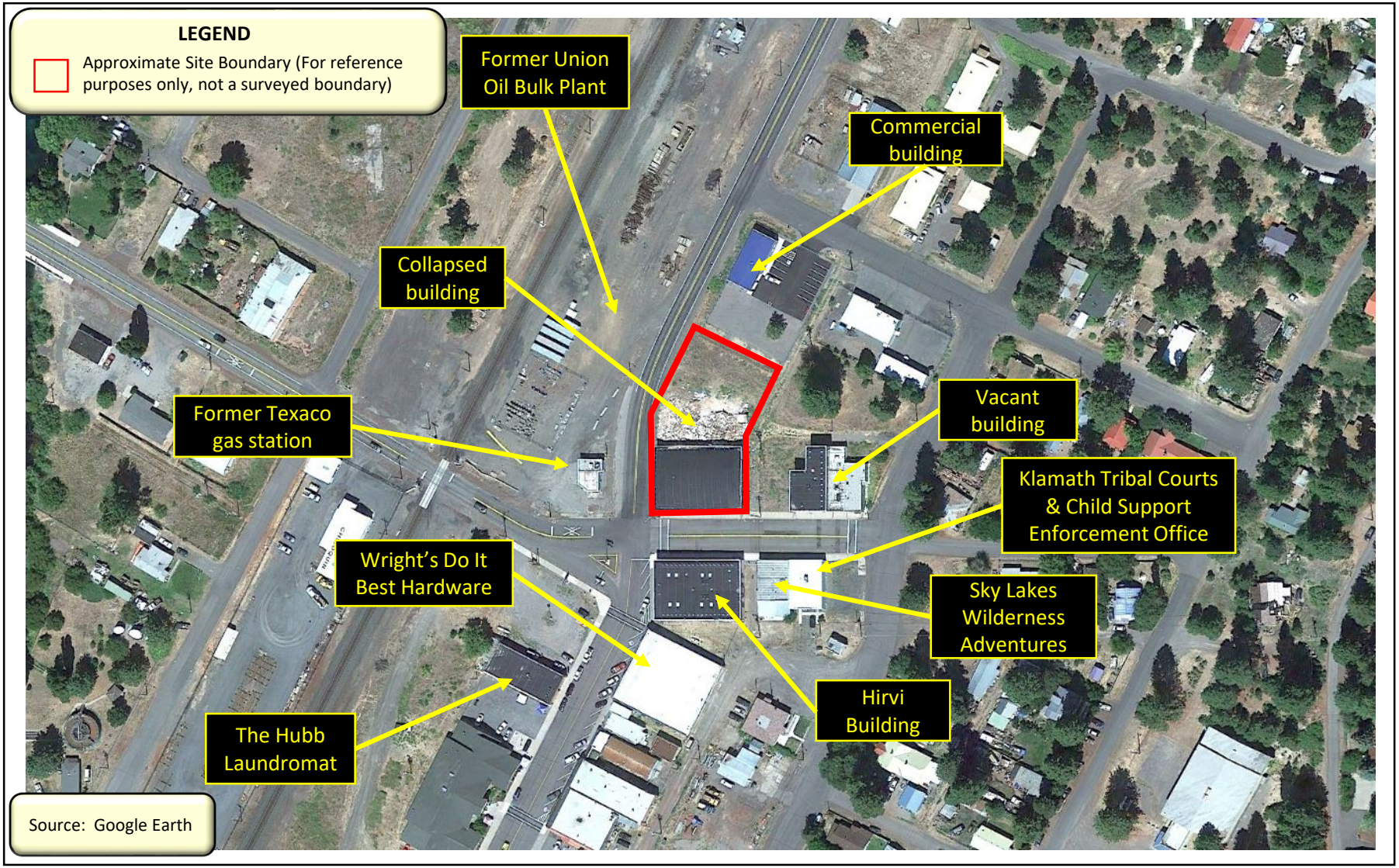



Cardno Shaping the Future

N

**Phase I ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ200**

**Figure 3**
**Tax Map**




Cardno
Shaping the Future

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**Phase I ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ200**

**Figure 4**
**Surrounding Land Use Map**

Cardno
Shaping the Future

*"This is not a map of survey."*

N

**Phase I ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ200**

**Figure 5**
**REC Map**

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# A

PHOTOGRAPHIC LOG

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 1 | 4/13/2021 |

**Direction Photo Taken:**

East

**Description:**

A view of the on-site building located at the Subject Property from North 1st Avenue.

| Photo No. | Date: |
|---|---|
| 2 | 4/13/2021 |

**Direction Photo Taken:**

Southeast

**Description:**

View of the on-site building and demolished building attachment on the Subject Property from North 1st Avenue. The building debris is considered PACM.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 3 | 4/13/2021 |

**Direction Photo Taken:**

North

**Description:**

View of the southwest corner of the on-site building from West Chocktoot Street.

| Photo No. | Date: |
|---|---|
| 4 | 4/13/2021 |

**Direction Photo Taken:**

Northeast

**Description:**

View of the southeast corner of the on-site building from West Chocktoot Street.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 5 | 4/13/2021 |

**Direction Photo Taken:**

Southwest

**Description:**

View of a pile of wood chips and an in-ground hydraulic lift (1).

| Photo No. | Date: |
|---|---|
| 6 | 4/13/2021 |

**Direction Photo Taken:**

East

**Description:**

A view of an in-ground hydraulic lift (2). Additionally, a vent pipe (left of door) is indicative of a potential UST or heating oil tank.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 7 | 4/13/2021 |

**Direction Photo Taken:**

East

**Description:**

View of an oil-changing pit (1) and an in-ground hydraulic lift (3).

| Photo No. | Date: |
|---|---|
| 8 | 4/13/2021 |

**Direction Photo Taken:**

Northwest

**Description:**

View of potential underground storage tank (UST) vent pipe along the interior of the west wall.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 9 | 4/13/2021 |

**Direction Photo Taken:**

Northeast

**Description:**

A view of a commercial building at the north adjoining property.

| Photo No. | Date: |
|---|---|
| 10 | 4/13/2021 |

**Direction Photo Taken:**

East

**Description:**

View of an abandoned building at the east adjoining property.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 11 | 4/13/2021 |

**Direction Photo Taken:**

Southeast

**Description:**

A view of Sky Lakes Wilderness Adventures (right) and Klamath Tribal Courts & Child Support Enforcement Office (left) at the southeast adjacent property.

| Photo No. | Date: |
|---|---|
| 12 | 4/13/2021 |

**Direction Photo Taken:**

Southwest

**Description:**

View of the Hirvi Building at the south adjacent property.

# PHOTOGRAPHIC LOG

**Site Location:**
Former Markwardt Brothers, Chiloquin, Oregon 97624

**Project**
CHILOQ100

| Photo No. | Date: |
|---|---|
| 13 | 4/13/2021 |

**Direction Photo Taken:**

West

**Description:**

View of the former Shell gas station at the west adjacent property.

| Photo No. | Date: |
|---|---|
| 14 | 4/13/2021 |

**Direction Photo Taken:**

Southwest

**Description:**

Confirmed ACM: White skim coat on plaster surfacing located in Room 2.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 15 | 4/13/2021 |

**Direction Photo Taken:**

Southeast

**Description:**

Confirmed ACM: White texture and joint compound on drywall located in Room 2.

| Photo No. | Date: |
|---|---|
| 16 | 4/13/2021 |

**Direction Photo Taken:**

Southwest

**Description:**

Confirmed ACM: Interior white caulk located in Room 2.

# PHOTOGRAPHIC LOG

| Site Location: | Project |
|---|---|
| Former Markwardt Brothers, Chiloquin, Oregon 97624 | CHILOQ100 |

| Photo No. | Date: |
|---|---|
| 17 | 4/13/2021 |

**Direction Photo Taken:**

Southeast

**Description:**

Confirmed ACM: Exterior red paint on plaster surfacing.

| Photo No. | Date: |
|---|---|
| 18 | 4/13/2021 |

**Direction Photo Taken:**

N/A

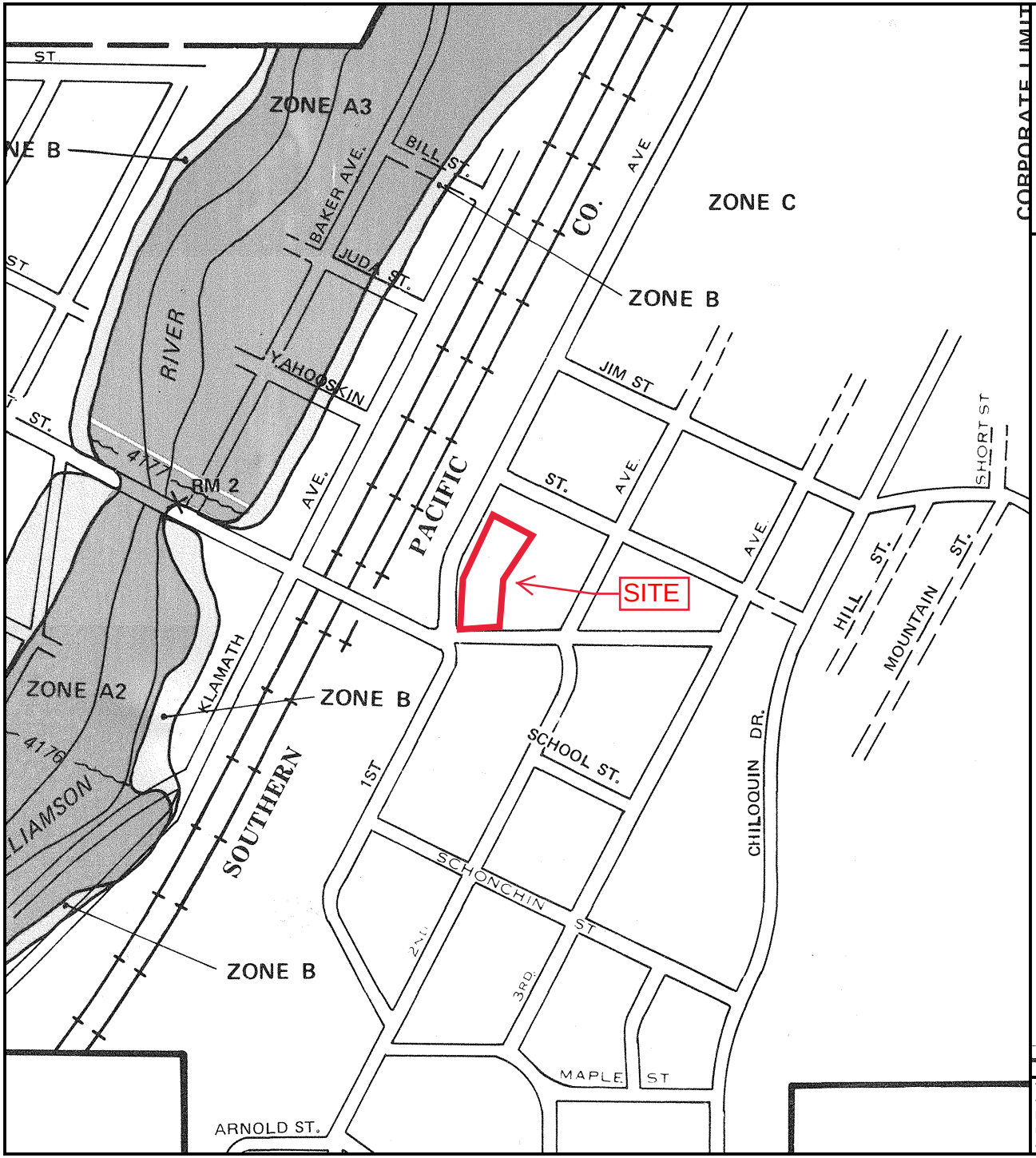
**Description:**

Confirmed LBP: Interior tan/gray paint on wood ceiling located in Room 2.

FORMER MARKWARDT
BROTHERS GARAGE

# APPENDIX B

## PHYSICAL SETTING MAPS




APPROXIMATE SCALE

400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

# FIRM

## FLOOD INSURANCE RATE MAP

CITY OF

CHILOQUIN, OREGON

KLAMATH COUNTY

ONLY PANEL PRINTED

SEE MAP INDEX FOR PANELS NOT PRINTED

COMMUNITY-PANEL NUMBER
410111 0001 B

EFFECTIVE DATE:
AUGUST 15, 1984

Federal Emergency Management Agency

This is an official FIRMette showing a portion of the above-referenced flood map created from the MSC FIRMette Web tool. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For additional information about how to make sure the map is current, please see the Flood Hazard Mapping Updates Overview Fact Sheet available on the FEMA Flood Map Service Center home page at https://msc.fema.gov.

U.S. Fish and Wildlife Service

National Wetlands Inventory

# Wetlands

November 23, 2021

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Map Scale: 1:427 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 5 10 20 30

Feet
0 20 40 80 120

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Klamath County, Oregon, Southern Part
Survey Area Data: Version 20, Oct 27, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 10, 2019—Oct 28, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 47A | Lobert sandy loam, 0 to 2 percent slopes | 0.6 | 100.0% |
| **Totals for Area of Interest** | | **0.6** | **100.0%** |

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# C

## RECORD OF COMMUNICATIONS & INTERVIEWS

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# All Appropriate Inquiry - User Questionnaire

The new All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to the user (prospective purchaser) to help evaluate the environmental conditions of the property. In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user/prospective purchaser must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

**Property Name**: Former Markwardt Brothers Garage

**User Name**: City of Chiloquin

**User Address** :PO Box 196

**City**: Chiloquin **State**: OR **Zip**: 97624

**User Email**: chicityhall@gmail.com

**User Phone Number**: 541-783-2035

**(1) Environmental cleanup liens that are filed against the site (40 CFR 312.25)**
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? Y **X** N
Explain:

**(2) Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)**
Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? Y **X** N
Explain:

**(3) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)**
As the user of this ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line business as the current or former occupants of the property or adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business. Y **X** N
Explain:

**(4) Relationship of the purchase price to the fair market value of the property (40 CFR 312.29)**
Does the purchase price being paid for this property reasonably reflect the fair market value of the property? Y N **X** N/A
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? Y N N/A
Explain: **No purchase price, the property is being transferred under a government to government agreement**

**(5) Commonly known or reasonable ascertainable information about the property (40 CFR 312.30)**
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional it identify conditions indicative of releases or threatened releases? For example, as the user,
**a)** Do you know the past uses of the property? **X** Y N Explain: **knowledge limited to information included in prior environmental reports provided by consultant**

**b)** Do you know of specific chemicals that are present or once were present at the property or adjacent properties? **X** Y N Explain: **knowledge based on prior environmental reports provided by consultant**

**c)** Do you know of spills or other chemical releases that have taken place at the property or adjacent properties? **X** Y N Explain: **knowledge limited to information included in prior environmental reports provided by consultant**

**d)** Do you know of any environmental cleanups that have taken place at the property or adjacent properties? Y **X** N Explain: **knowledge limited to information included in prior environmental reports provided by consultant**

**(6) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31)**
As the user of this Phase I Environmental Site Assessment report, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property? **X** Y N
Explain: **knowledge limited to information included in prior environmental reports provided by consultant**

I have completed this questionnaire in good faith and to the best of my knowledge.

Signature: Teresa R Foreman Date: 11-23-2021

Name: Teresa R Foreman

Title: City Recorder

Company: City of Chiloquin

Relationship to the property: Potential Purchaser / Future Owner Representative

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Shaping the Future

# All Appropriate Inquiry - Interview Questionnaire

The new All Appropriate Inquiry rule (40 CFR Part 312) requires that certain inquiries be made to past and present owners, operators and occupants (§312.23) to help evaluate the environmental conditions of the property. This questionnaire has been developed to facilitate the interview process and is intended to be completed prior to the environmental professional's site visit. Please answer all questions to the best of your ability.

Site/Project Name: Train Mtn Museum Bldg. (Marquardt Bros.)

Address: Corner of 1st & Chocktot Chiloquin, OR

Person completing interview: Rick Vaughn, Klamath County Prop. Mgr.

Current Owner ☒ Current Occupant ☐ Adjacent Property Owner/Occupant ☐
Past Owner ☐ Past Occupant ☐

1. What is the current use(s) of the property? List all on-site businesses and contact information for each owner or operator.
   None

2. List the known uses/occupants of all adjacent properties.
   None

3. Do you know the past uses of the property? ☐Y ☒N List: (i.e. – undeveloped prior to 1940, agricultural 1940 to 1968, shopping center 1968 to present).
   Obtained via Tax foreclosure.

4. What have adjacent properties been used for in the past?
   Hotel

5. List the total acreage of the property and square footage of each building present on site. .51 acres 12,316 ft²

6. When was each structure built? What was there before construction?
Unknown

7. What is the heating source of each building? None

8. Was the fuel source for the building(s) ever heating oil? ☐Y ☐ N ☒Unk

9. What is the water source for the property? ☐Public Supply ☐ Well ☒Unk

10. What is the sanitary service for the property? ☐Public Sanitary Sewer ☐ Septic System ☒Unk

11. Has there ever been a septic system on the property? ☐Y ☐ N ☒Unk

12. Are any wells present on-site? ☐Y ☐ N ☒Unk

13. Are floor drains present on-site? ☐Y ☐ N ☒Unk

14. Where do the drains discharge? ☐ N/A Unknown

15. Are any sumps, sand traps, grease traps or oil-water separators present now or historically on-site? ☐Y ☐ N ☒Unk

16. Are there transformers, hydraulic lifts or other potentially PCB-containing equipment at the site? ☐Y ☒N ☐Unk

17. If so, has the PCB content been tested? ☐Y ☒N ☐Unk

18. Have areas of the property been used as borrow pits? ☐Y ☐ N Explain:
Unknown

19. Have area of the property been filled with debris or fill of unknown origin? ☐Y ☒N Explain:

20. Is there now or has there been automobile/equipment repair, a parts washer or degreaser present at the property? ☒Y ☐ N Explain: City of Chiloquin has history.

21. Are hazardous substances or petroleum products stored, generated, treated or disposed at the property? ☐Y ☐ N Explain/List: Unknown

22. Are there now or have there been underground storage tanks (USTs) present on the property ? ☐Y ☒N Explain/List: Not to my knowledge

23. How many USTs are/were present? (Please provide the contents, age, location, size for each) ☒N/A

24. Are the USTs in service, closed-in-place or removed? Please provide applicable closure/removal reports or current tightness testing results) ☐ In Service ☐ Removed ☐ Closed-in-Place ☒N/A

25. Are there now or have there been aboveground storage tanks (ASTs) present on the property ? ☐Y ☒N Explain/List: Unknown

26. How many ASTs are/were present? (Please provide the contents, age, location, size for each) ☒N/A

27. Are the ASTs in service, or removed? Please provide applicable closure/removal reports or current tightness testing results) ☐ In Service ☐ Removed ☒N/A

28. Were chemicals such as solvents, petroleum products, inks, paints, oils, pesticides or oils used in the past? ☐Y ☐ N Explain: Unknown

29. Do you know of specific chemicals that are present or once were present at the property or adjacent properties? ☐Y ☒N List: _____

30. Were hazardous substances or petroleum products stored, generated, treated or disposed at the property? ☐Y ☒N Explain/List: _____

31. Do you know of spills or other chemical releases that have taken place at the property or adjacent properties? ☐Y ☒N Explain: _____

32. Do you know of any environmental cleanups that have taken place at the property or adjacent properties? ☐Y ☒N Explain: _____

33. Has the property been the recipient of any notices or other correspondence from any government agency relating to past or present violations of environmental laws, rules or codes? ☐Y ☒N Explain: _____

34. Do you know of any obvious indicators that point to the presence or likely presence of contamination at the property or adjacent properties? ☐Y ☐ N Explain: Unknown

35. Are you aware of any environmental cleanup liens or pending enforcement actions against the property that are filed or recorded under federal, tribal, state or local law? ☐Y ☒N Explain: _____

36. Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? ☐Y ☒N Explain: _____

37. Do you have any other information that might indicate potential environmental concerns associated with the subject or adjacent properties? ☐Y ☒N Explain: _____

I have completed this questionnaire in good faith and to the best of my knowledge.

Signature: _____ Date: 4/12/21

Name: Rick Vaughn

Title: Tax Collector / Prop. Mgr.

Company: Klamath County

Relationship to the property: Owner

Number of years associated with the property: Approx. 2 yrs.

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# D

## RADIUS MAP REPORT

**W Chocktoot Block**
100-116 W Chocktoot St
Chiloquin, OR 97624

Inquiry Number: 6717501.2s
October 23, 2021

# 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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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

100-116 W CHOCKTOOT ST
CHILOQUIN, OR 97624

### COORDINATES

| | |
|---|---|
| Latitude (North): | 42.5767070 - 42° 34' 36.14'' |
| Longitude (West): | 121.8626320 - 121° 51' 45.47'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 593341.9 |
| UTM Y (Meters): | 4714223.0 |
| Elevation: | 4196 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 6071694 CHILOQUIN, OR |
| Version Date: | 2014 |
| West Map: | 6072131 AGENCY LAKE, OR |
| Version Date: | 2014 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20140724 |
| Source: | USDA |

## MAPPED SITES SUMMARY

Target Property Address:
100-116 W CHOCKTOOT ST
CHILOQUIN, OR 97624

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | MARKWARDT BUILDING ( | 103 E CHOCKTOOT ST. | ECSI, BROWNFIELDS | Lower | 4, 0.001, |
| A2 | CHILOQUIN TEXACO (FO | 103 E. CHOCKTOOT | UST | Lower | 15, 0.003, WSW |
| A3 | FORMER CHILOQUIN TEX | W. CHOCKTOOT STREET | US BROWNFIELDS | Lower | 15, 0.003, WSW |
| A4 | SMITH DANIEL L | FIRST & CHOCKTOOT | EDR Hist Auto | Lower | 15, 0.003, WSW |
| A5 | CHILOQUIN TEXACO | 1ST & CHOCKTOOT | LUST | Lower | 15, 0.003, WSW |
| A6 | UNION OIL BULK PLANT | 1ST AVE & MAPLE ST ( | ECSI, VCP, FINDS | Lower | 115, 0.022, NNW |
| B7 | MAY-SLADE OIL CO/BUL | 123 W CHOCKTOOT ST | LUST, OR HAZMAT | Lower | 265, 0.050, WNW |
| 8 | CHILOQUIN AGENCY LAK | 156 S 2ND AVE | AST, HSIS | Higher | 267, 0.051, SSW |
| C9 | AUTO REPAIR - CHILOQ | 220 E CHOCKTOOT ST | ECSI | Higher | 300, 0.057, East |
| C10 | MAY-SLADE OIL CO | 220 W CHOCKFOOT | UST | Higher | 306, 0.058, East |
| B11 | CHILOQUIN STANDARD O | CHOCKTOOT ST | ECSI, VCP, BROWNFIELDS, FINDS | Lower | 306, 0.058, West |
| 12 | TELEPHONE UTILITIES | 2ND & YAHOOSKIN | UST | Higher | 328, 0.062, NE |
| B13 | UPRR BULK PLANT - CH | 123 CHOCKTOOT ST. | ECSI, VCP | Lower | 332, 0.063, WNW |
| C14 | CHILOQUIN CLEANING & | CHOCKTOOT ST. & 2ND | ECSI | Higher | 361, 0.068, East |
| 15 | TONY REYES | 123 SOUTH THIRD STRE | RCRA NonGen / NLR | Higher | 368, 0.070, SE |
| 16 | UPRR - CHILOQUIN | 211 N 1ST AVE # 221 | LUST | Higher | 404, 0.077, NNE |
| B17 | MODOC MOTORS | CHOCKTOOT ST | ECSI | Lower | 493, 0.093, WNW |
| C18 | KLAMATH COUNTY SCHOO | 131 S 3RD | AST, HSIS | Higher | 524, 0.099, East |
| D19 | WAMPLER LOGGING | 212 N KLAMATH AVE. | ECSI | Lower | 555, 0.105, NNW |
| D20 | WAMPLER LOGGING | 212 KLAMATH AVENUE | RCRA NonGen / NLR | Lower | 555, 0.105, NNW |
| 21 | CHOCKTOOT ST. PETROL | CHOCKTOOT ST. (EAST | ECSI | Lower | 769, 0.146, WNW |
| 22 | CLYDE'S FAIRWAY MARK | 323 CHOCKTOOT ST. | ECSI | Lower | 1150, 0.218, WNW |
| 23 | CHILOQUIN FOREST PRO | W BLOCKLINGER ST., | SEMS-ARCHIVE | Higher | 1666, 0.316, SSE |
| 24 | ODOT - CHILOQUIN UIC | 46331 CHOCKTOOT ST | ECSI | Higher | 2015, 0.382, WNW |
| 25 | CHILOQUIN FOREST PRO | BLOCKLINGER ST (END | ECSI, CRL, ENG CONTROLS, INST CONTROL, BROWNFIELDS | Lower | 2535, 0.480, SSW |
| 26 | CHILOQUIN CHRISTIAN | 301 S CHILOQUIN BLVD | ECSI | Lower | 2542, 0.481, West |
| 27 | CHILOQUIN FOREST PRO | BLOCKLINGER ST (WEST | ECSI, BROWNFIELDS | Lower | 2954, 0.559, SW |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

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

## DATABASES WITH NO MAPPED SITES

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

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

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

### *Federal Delisted NPL site list*

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

### *Federal CERCLIS list*

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

### *Federal 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-VSQG | RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators) |

### *Federal institutional controls / engineering controls registries*

| | |
|---|---|
| LUCIS | Land Use Control Information System |
| US ENG CONTROLS | Engineering Controls Sites List |
| US INST CONTROLS | Institutional Controls Sites List |

### *Federal ERNS list*

| | |
|---|---|
| ERNS | Emergency Response Notification System |

# EXECUTIVE SUMMARY

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

SWF/LF ---------- Solid Waste Facilities List

***State and tribal leaking storage tank lists***

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Landfill / Solid Waste Disposal Sites***

SWRCY ---------- Recycling Facility Location Listing
HIST LF ---------- Old Closed SW Disposal Sites
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 ---------- SPILLS 90 data from FirstSearch

***Other Ascertainable Records***

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST

# EXECUTIVE SUMMARY

2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
UXO ---- Unexploded Ordnance Sites
ECHO ---- Enforcement & Compliance History Information
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
AIRS ---- Oregon Title V Facility Listing
COAL ASH ---- Coal Ash Disposal Sites Listing
DRYCLEANERS ---- Drycleaning Facilities
Enforcement ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HSIS ---- Hazardous Substance Information Survey
MANIFEST ---- Manifest Information
NPDES ---- Wastewater Permits Database
UIC ---- Underground Injection Control Program Database
MINES MRDS ---- Mineral Resources Data System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
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

# EXECUTIVE SUMMARY

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**

***Federal CERCLIS NFRAP site list***

SEMS-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.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/29/2021 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHILOQUIN FOREST PRO<br>Site ID: 1002686<br>EPA Id: ORN001002686 | W BLOCKLINGER ST., | SSE 1/4 - 1/2 (0.316 mi.) | 23 | 80 |

***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 06/01/2021 has revealed that there are 14 ECSI sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| AUTO REPAIR - CHILOQ | 220 E CHOCKTOOT ST | E 0 - 1/8 (0.057 mi.) | C9 | 40 |

| | | | | |
|---|---|---|---|---|
| Investigation: Suspect<br>State ID Number: 5389 | | | | |
| CHILOQUIN CLEANING &<br>Investigation: Suspect<br>State ID Number: 3182<br>Decode For Further Action: Low | CHOCKTOOT ST. & 2ND | E 0 - 1/8 (0.068 mi.) | C14 | 58 |
| ODOT - CHILOQUIN UIC<br>Investigation: Suspect<br>State ID Number: 4821 | 46331 CHOCKTOOT ST | WNW 1/4 - 1/2 (0.382 mi.) | 24 | 81 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MARKWARDT BUILDING (***<br>Size: 0.41 acres<br>Investigation: Suspect<br>State ID Number: 6462 | ***103 E CHOCKTOOT ST.*** | ***0 - 1/8 (0.001 mi.)*** | ***A1*** | ***8*** |
| ***UNION OIL BULK PLANT***<br>Size: <1 acre<br>Investigation: No Further Action<br>State ID Number: 3065 | ***1ST AVE & MAPLE ST (*** | ***NNW 0 - 1/8 (0.022 mi.)*** | ***A6*** | ***28*** |
| ***CHILOQUIN STANDARD O***<br>Size: 1.4 acres<br>Investigation: No Further Action<br>State ID Number: 2559 | ***CHOCKTOOT ST*** | ***W 0 - 1/8 (0.058 mi.)*** | ***B11*** | ***42*** |
| ***UPRR BULK PLANT - CH***<br>Investigation: No Further Action<br>State ID Number: 2435 | ***123 CHOCKTOOT ST.*** | ***WNW 0 - 1/8 (0.063 mi.)*** | ***B13*** | ***51*** |
| MODOC MOTORS<br>Investigation: Suspect<br>State ID Number: 5402 | CHOCKTOOT ST | WNW 0 - 1/8 (0.093 mi.) | B17 | 63 |
| WAMPLER LOGGING<br>Investigation: Suspect<br>State ID Number: 4727 | 212 N KLAMATH AVE. | NNW 0 - 1/8 (0.105 mi.) | D19 | 69 |
| CHOCKTOOT ST. PETROL<br>Investigation: Suspect<br>State ID Number: 5407 | CHOCKTOOT ST. (EAST | WNW 1/8 - 1/4 (0.146 mi.) | 21 | 77 |
| CLYDE'S FAIRWAY MARK<br>Investigation: Suspect<br>State ID Number: 4078<br>Decode For Further Action: Medium-Low | 323 CHOCKTOOT ST. | WNW 1/8 - 1/4 (0.218 mi.) | 22 | 79 |
| ***CHILOQUIN FOREST PRO***<br>Size: 26.34 acres<br>Investigation: Listed on the CRL/Inventory<br>State ID Number: 1213 | ***BLOCKLINGER ST (END*** | ***SSW 1/4 - 1/2 (0.480 mi.)*** | ***25*** | ***83*** |
| CHILOQUIN CHRISTIAN<br>Investigation: No Further Action<br>State ID Number: 5491 | 301 S CHILOQUIN BLVD | W 1/4 - 1/2 (0.481 mi.) | 26 | 102 |
| ***CHILOQUIN FOREST PRO***<br>Investigation: Suspect<br>State ID Number: 4885 | ***BLOCKLINGER ST (WEST*** | ***SW 1/2 - 1 (0.559 mi.)*** | ***27*** | ***104*** |

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

A review of the CRL list, as provided by EDR, and dated 05/01/2021 has revealed that there is 1 CRL site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHILOQUIN FOREST PRO*** | ***BLOCKLINGER ST (END*** | ***SSW 1/4 - 1/2 (0.480 mi.)*** | ***25*** | ***83*** |
| Facility Status: No Further Action (Conditional) | | | | |
| Facility Id: 1213 | | | | |

***State and tribal leaking storage tank lists***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST Database List.

A review of the LUST list, as provided by EDR, and dated 04/15/2021 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| UPRR - CHILOQUIN | 211 N 1ST AVE # 221 | NNE 0 - 1/8 (0.077 mi.) | 16 | 63 |
| Facility ID: 18-15-0790 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHILOQUIN TEXACO | 1ST & CHOCKTOOT | WSW 0 - 1/8 (0.003 mi.) | A5 | 28 |
| Facility ID: 18-94-0030 | | | | |
| Cleanup Complete: 07/22/2019 | | | | |
| ***MAY-SLADE OIL CO/BUL*** | ***123 W CHOCKTOOT ST*** | ***WNW 0 - 1/8 (0.050 mi.)*** | ***B7*** | ***34*** |
| Facility ID: 18-91-0057 | | | | |
| Cleanup Complete: 01/28/2013 | | | | |

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's UST List on Disk.

A review of the UST list, as provided by EDR, and dated 04/15/2021 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MAY-SLADE OIL CO | 220 W CHOCKFOOT | E 0 - 1/8 (0.058 mi.) | C10 | 42 |
| Facility ID: 10724 | | | | |
| TELEPHONE UTILITIES | 2ND & YAHOOSKIN | NE 0 - 1/8 (0.062 mi.) | 12 | 51 |
| Facility ID: 3505 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CHILOQUIN TEXACO (FO | 103 E. CHOCKTOOT | WSW 0 - 1/8 (0.003 mi.) | A2 | 9 |

Facility ID: 1517

AST: The Aboveground Storage Tank database contains registered ASTs. The data comes from the list of ASTs reported to the Office of State Fire Marshal.

A review of the AST list, as provided by EDR, and dated 04/22/2021 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHILOQUIN AGENCY LAK*** Facility Id: 24557 | ***156 S 2ND AVE*** | ***SSW 0 - 1/8 (0.051 mi.)*** | ***8*** | ***37*** |
| ***KLAMATH COUNTY SCHOO*** Facility Id: 90392 | ***131 S 3RD*** | ***E 0 - 1/8 (0.099 mi.)*** | ***C18*** | ***65*** |

***State and tribal institutional control / engineering control registries***

ENG CONTROLS: 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.

A review of the ENG CONTROLS list, as provided by EDR, and dated 06/01/2021 has revealed that there is 1 ENG CONTROLS site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHILOQUIN FOREST PRO*** Site Id: 1213 | ***BLOCKLINGER ST (END*** | ***SSW 1/4 - 1/2 (0.480 mi.)*** | ***25*** | ***83*** |

INST CONTROL: Sites with Engineering or Institutional Controls.

A review of the INST CONTROL list, as provided by EDR, and dated 06/01/2021 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CHILOQUIN FOREST PRO*** Site Id: 1213 | ***BLOCKLINGER ST (END*** | ***SSW 1/4 - 1/2 (0.480 mi.)*** | ***25*** | ***83*** |

***State and tribal voluntary cleanup sites***

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

A review of the VCP list, as provided by EDR, and dated 03/26/2021 has revealed that there are 3 VCP sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***UNION OIL BULK PLANT*** | ***1ST AVE & MAPLE ST (*** | ***NNW 0 - 1/8 (0.022 mi.)*** | ***A6*** | ***28*** |
| Action: NO FURTHER STATE ACTION REQUIRED<br>ECS Site ID: 3065<br>Facility Size: <1 acre | | | | |
| ***CHILOQUIN STANDARD O*** | ***CHOCKTOOT ST*** | ***W 0 - 1/8 (0.058 mi.)*** | ***B11*** | ***42*** |
| Action: NO FURTHER STATE ACTION REQUIRED<br>ECS Site ID: 2559<br>Facility Size: 1.4 acres | | | | |
| ***UPRR BULK PLANT - CH*** | ***123 CHOCKTOOT ST.*** | ***WNW 0 - 1/8 (0.063 mi.)*** | ***B13*** | ***51*** |
| Action: NO FURTHER STATE ACTION REQUIRED<br>ECS Site ID: 2435 | | | | |

### *State and tribal Brownfields sites*

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

A review of the BROWNFIELDS list, as provided by EDR, and dated 05/01/2021 has revealed that there are 3 BROWNFIELDS sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MARKWARDT BUILDING (*** | ***103 E CHOCKTOOT ST.*** | ***0 - 1/8 (0.001 mi.)*** | ***A1*** | ***8*** |
| Status: SITE INVESTIGATION<br>envid: 6462 | | | | |
| ***CHILOQUIN STANDARD O*** | ***CHOCKTOOT ST*** | ***W 0 - 1/8 (0.058 mi.)*** | ***B11*** | ***42*** |
| Status: NO FURTHER STATE ACTION REQUIRED<br>envid: 2559 | | | | |
| ***CHILOQUIN FOREST PRO*** | ***BLOCKLINGER ST (END*** | ***SSW 1/4 - 1/2 (0.480 mi.)*** | ***25*** | ***83*** |
| Status: No Further Action (Conditional)<br>envid: 1213 | | | | |

## ADDITIONAL ENVIRONMENTAL RECORDS

### *Local Brownfield lists*

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/10/2021 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FORMER CHILOQUIN TEX | W. CHOCKTOOT STREET | WSW 0 - 1/8 (0.003 mi.) | A3 | 10 |
| ACRES property ID: 232801<br>Cleanup Completion Date: - | | | | |

***Other Ascertainable Records***

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TONY REYES<br>EPA ID:: ORSTATE06675 | 123 SOUTH THIRD STRE | SE 0 - 1/8 (0.070 mi.) | 15 | 60 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| WAMPLER LOGGING<br>EPA ID:: ORSTATE06678 | 212 KLAMATH AVENUE | NNW 0 - 1/8 (0.105 mi.) | D20 | 71 |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Auto: 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.

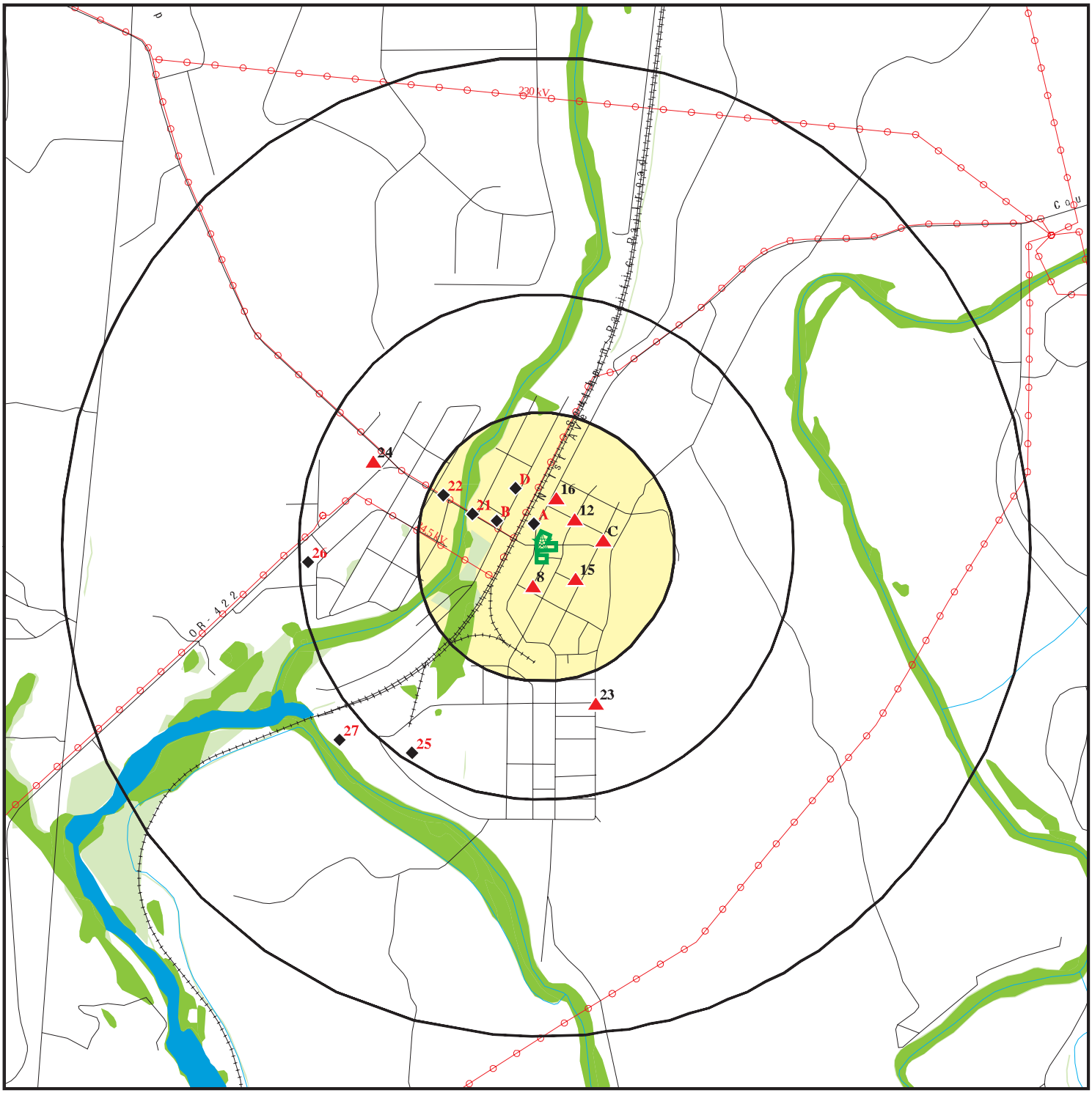
A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| SMITH DANIEL L | FIRST & CHOCKTOOT | WSW 0 - 1/8 (0.003 mi.) | A4 | 27 |

# EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 6717501.2S




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- National Wetland Inventory
- State Wetlands
- Areas of Concern

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: | W Chocktoot Block | CLIENT: | Cardno |
| ADDRESS: | 100-116 W Chocktoot St<br>Chiloquin OR 97624 | CONTACT: | Sam Urban |
| | | INQUIRY #: | 6717501.2s |
| LAT/LONG: | 42.576707 / 121.862632 | DATE: | October 23, 2021 2:37 am |

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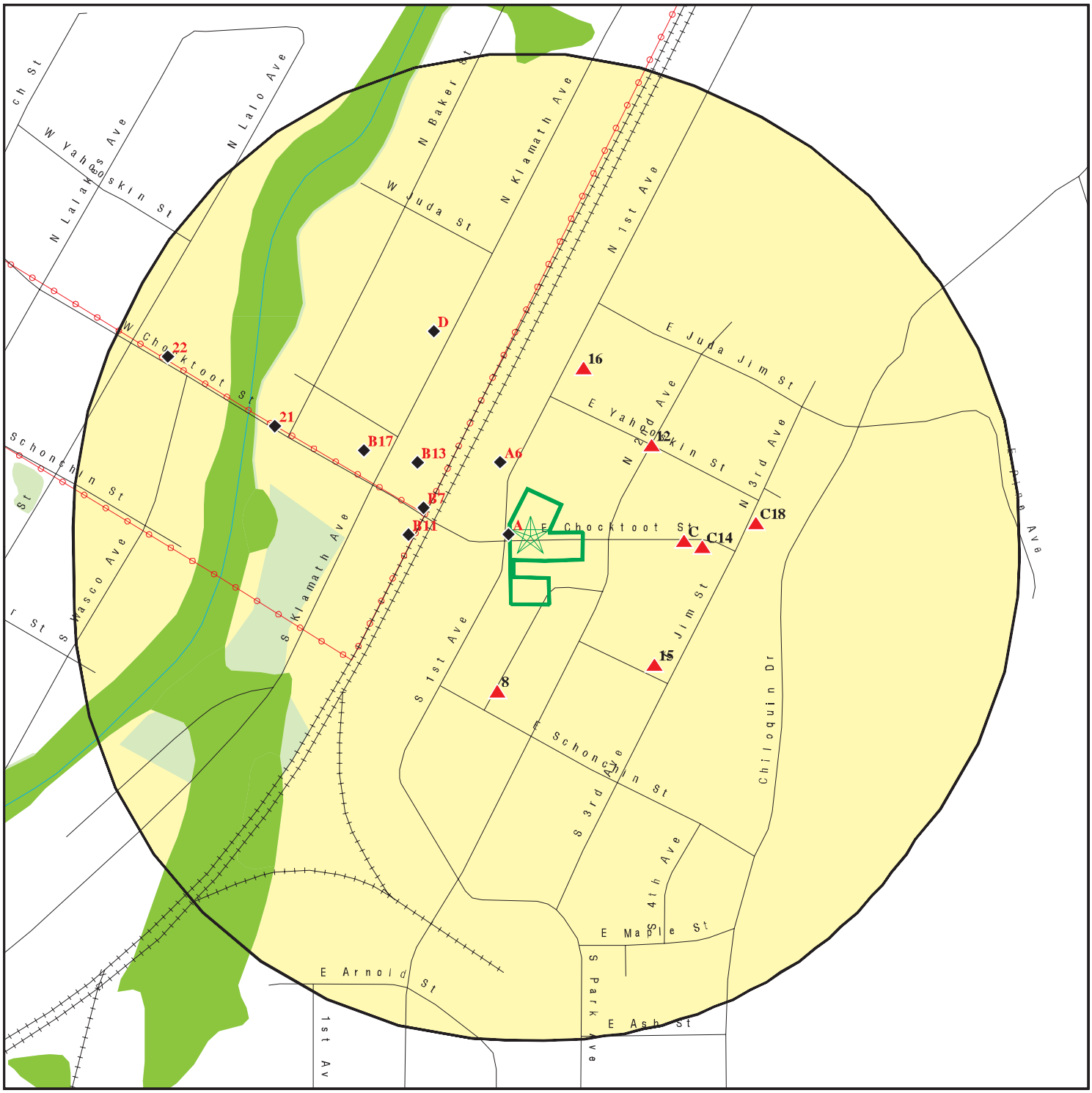
# DETAIL MAP - 6717501.2S




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

National Wetland Inventory

State Wetlands

Areas of Concern

N

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: | W Chocktoot Block | CLIENT: | Cardno |
| ADDRESS: | 100-116 W Chocktoot St<br>Chiloquin OR 97624 | CONTACT: | Sam Urban |
| | | INQUIRY #: | 6717501.2s |
| LAT/LONG: | 42.576707 / 121.862632 | DATE: | October 23, 2021 2:39 am |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ECSI | 1.000 | | 8 | 2 | 3 | 1 | NR | 14 |
| CRL | 1.000 | | 0 | 0 | 1 | 0 | NR | 1 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 3 | 0 | 0 | NR | NR | 3 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| UST | 0.250 | | 3 | 0 | NR | NR | NR | 3 |
| AST | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal institutional control / engineering control registries*** | | | | | | | | |
| ENG CONTROLS | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| INST CONTROL | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 3 | 0 | 0 | NR | NR | 3 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 2 | 0 | 1 | NR | NR | 3 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HIST LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| AOCONCERN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| CDL | TP | | NR | NR | NR | NR | NR | 0 |
| US CDL | TP | | NR | NR | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| SPILLS | TP | | NR | NR | NR | NR | NR | 0 |
| OR HAZMAT | TP | | NR | NR | NR | NR | NR | 0 |
| SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| 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 | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| 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 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | TP | | NR | NR | NR | NR | NR | 0 |
| DOCKET HWC | TP | | NR | NR | NR | NR | 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 |
| MINES MRDS | 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 | | 1 | NR | NR | NR | NR | 1 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered 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 | 25 | 2 | 8 | 1 | 0 | 36 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1** **MARKWARDT BUILDING (FORMER)** **ECSI** **S127481973**
**103 E CHOCKTOOT ST.** **BROWNFIELDS** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.001 mi.**
**4 ft.** **Site 1 of 6 in cluster A**

**Relative:** **Lower**

**Actual:** **4195 ft.**

ECSI:

| | |
|---|---|
| Name: | MARKWARDT BUILDING (FORMER) |
| Address: | 103 E CHOCKTOOT ST. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 6462 |
| Brown ID: | Brownfield Site - Assistance From Other Public Agencies |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 831 |
| Investigation: | Suspect |
| FACA ID: | 164772 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 36.00 / -121 51 45.00 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | CD |
| Tax Lots: | 500 |
| Size: | 0.41 acres |
| NPL: | False |
| Orphan: | False |
| Updated By: | KDAUGHE |
| Update Date: | 05/03/2021 |
| Created Date: | 05/03/2021 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Brownfield Site - Assistance from Other Public Agencies |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | Suspect |
| Decode For Legislative: | Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420 |

Narrative:

| | |
|---|---|
| NARR ID: | 5758135 |
| NARR Code: | Remedial Action |
| Created By: | KDAUGHE |
| Created Date: | 05/03/2021 |
| Updated By: | KDAUGHE |
| Updated Date: | 05/03/2021 |
| Decode for NarcdID: | Remedial Action |

NARR Comments: (5/3/21 KJD/SAS) The Property is located in the heart of downtown Chiloquin and is occupied by a 12,300 square foot building constructed in 1924. Historically, former uses of the Property include a car dealership, gas station, warehouse, and auto body repair shop. Although in deteriorating condition, the building is one only a handful of historic buildings still standing in the City. The building was last occupied in 2008 and has remained vacant since that time. Wthout being evaluated for restoration and reuse it will be considered for demolition. Potential contaminants of concern include petroleum, asbestos, and lead from historical and industrial uses on

**MARKWARDT BUILDING (FORMER) (Continued)** **S127481973**

and adjacent to the Property. Brownfield funding from OBDD is being used to perform a Phase 1 and potentially a Phase II ESA.

Administrative Action:

| | |
|---|---|
| Action ID: | 9424 |
| Region: | Not reported |
| Complete Date: | 05/03/2021 |
| Rank Value: | Not reported |
| Cleanup Flag: | False |
| Created Date: | 05/03/2021 |
| 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: | 9511 |
| Region: | Eastern Region |
| Complete Date: | Not reported |
| Rank Value: | Not reported |
| Cleanup Flag: | False |
| Created Date: | 05/03/2021 |
| Decode for AgencyID: | Department of Environmental Quality |
| Decode for RegionID: | Eastern Region |
| Category: | Remedial Action |
| Action Code Flag: | False |
| Action: | SITE INVESTIGATION |
| Further Action: | 0 |
| Comments: | Not reported |

OR BROWNFIELDS:

| | |
|---|---|
| Name: | MARKWARDT BUILDING (FORMER) |
| Address: | 103 E CHOCKTOOT ST. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Geolocation Id: | 164772 |
| Status: | SITE INVESTIGATION |
| Lat/Long: | 42.5768 / -121.862 |

---

**A2** **CHILOQUIN TEXACO (FORMER)** **UST** **U000437563**
**WSW** **103 E. CHOCKTOOT** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.003 mi.**
**15 ft.** **Site 2 of 6 in cluster A**

**Relative:** **Lower**

**Actual:** **4195 ft.**

UST:

| | |
|---|---|
| Name: | CHILOQUIN TEXACO (FORMER) |
| Address: | 103 E. CHOCKTOOT |
| City: | CHILOQUIN |
| Facility ID: | 1517 |
| Facility Telephone: | (541) 883-4297 |
| Permittee Name: | Rick Vaughn |
| Number of Permitted Tanks: | Not reported |
| Active Tanks: | Not reported |
| Decommissioned Tanks: | 7 |
| Number of Tanks: | 7 |

**A3**
**WSW**
**< 1/8**
**0.003 mi.**
**15 ft.**

**FORMER CHILOQUIN TEXACO**
**W. CHOCKTOOT STREET AND N. 1ST AVENUE**
**CHILOQUIN, OR 97624**

**Site 3 of 6 in cluster A**

**US BROWNFIELDS** **1024456344**
**N/A**

**Relative:**
**Lower**

**Actual:**
**4195 ft.**

US BROWNFIELDS:

| | |
|---|---|
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | - |
| Assessment Funding Source: | - |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | - |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | - |
| Accomplishment Count: | - |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | - |
| Ownership Entity: | Government |
| Completion Date: | - |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |
| No clean up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |

| | |
|---|---|
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |
| Start Date: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | - |
| Assessment Funding Source: | - |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | - |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | - |
| Accomplishment Count: | - |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | - |
| Ownership Entity: | Government |
| Completion Date: | - |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |
| PCBs cleaned up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |
| | |
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | - |
| Assessment Funding Source: | - |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | - |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | - |
| Accomplishment Count: | - |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | - |
| Ownership Entity: | Government |
| Completion Date: | - |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |
| | |
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | 75000 |
| Assessment Funding Source: | EPA |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | US EPA - Brownfields Assessment Cooperative Agreement |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | Phase II Environmental Assessment |
| Accomplishment Count: | Y |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | 08/01/2017 |
| Ownership Entity: | Government |
| Completion Date: | 05/24/2018 |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |
| | |
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | 25703 |
| Assessment Funding Source: | EPA |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | US EPA - Brownfields Assessment Cooperative Agreement |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | Supplemental Assessment |
| Accomplishment Count: | N |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | 06/07/2018 |
| Ownership Entity: | Government |
| Completion Date: | 09/21/2018 |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Nickel Cleaned Up: | - |
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |
| | |
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| IC Data Access: | - |
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | 25703 |
| Assessment Funding Source: | EPA |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | US EPA - Brownfields Assessment Cooperative Agreement |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | Supplemental Assessment |
| Accomplishment Count: | N |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | 06/07/2018 |
| Ownership Entity: | Government |
| Completion Date: | 09/21/2018 |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| PCBs found: | - |
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |
| | |
| Name: | FORMER CHILOQUIN TEXACO |
| Address: | W. CHOCKTOOT STREET AND N. 1ST AVENUE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Recipient Name: | City of Klamath Falls |
| Grant Type: | Assessment |
| Property Number: | 340734DC800 |
| Parcel size: | .11 |
| Latitude: | 42.5766382 |
| Longitude: | -121.8629078 |
| HCM Label: | - |
| Map Scale: | - |
| Point of Reference: | - |
| Highlights: | Former gas station, acquired by Klamath County through tax foreclosure. Vacant with USTs remaining in place until removed for assessment using grant funds. Follow up soil and groundwater sampling completed. DEQ issued NFA 7/22/219. The NFA is conditional on placement of a vapor barrier for any future development. A deed restriction prohibiting the use of groundwater has been placed on the property. |
| Datum: | - |
| Acres Property ID: | 232801 |
| IC Data Access: | - |
| Start Date: | - |
| Redev Completition Date: | - |
| Completed Date: | - |
| Acres Cleaned Up: | - |
| Cleanup Funding: | - |
| Cleanup Funding Source: | - |
| Assessment Funding: | - |
| Assessment Funding Source: | - |
| Redevelopment Funding: | - |
| Redev. Funding Source: | - |
| Redev. Funding Entity Name: | - |
| Redevelopment Start Date: | - |
| Assessment Funding Entity: | - |
| Cleanup Funding Entity: | - |
| Grant Type: | Petroleum |
| Accomplishment Type: | - |
| Accomplishment Count: | - |
| Cooperative Agreement Number: | 01J07701 |
| Start Date: | - |
| Ownership Entity: | Government |
| Completion Date: | - |
| Current Owner: | Klamath County |
| Did Owner Change: | Y |
| Cleanup Required: | N |
| Video Available: | - |
| Photo Available: | - |
| Institutional Controls Required: | Y |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| IC Category Proprietary Controls: | - |
| IC Cat. Info. Devices: | Y |
| IC Cat. Gov. Controls: | - |
| IC Cat. Enforcement Permit Tools: | - |
| IC in place date: | - |
| IC in place: | Y |
| State/tribal program date: | 07/03/1994 |
| State/tribal program ID: | 18-94-0030 |
| State/tribal NFA date: | 07/22/2019 |
| Air cleaned: | - |
| Asbestos found: | - |
| Asbestos cleaned: | - |
| Controled substance found: | - |
| Controled substance cleaned: | - |
| Drinking water affected: | - |
| Drinking water cleaned: | - |
| Groundwater affected: | Y |
| Groundwater cleaned: | - |
| Lead contaminant found: | - |
| Lead cleaned up: | - |
| No media affected: | Not reported |
| Unknown media affected: | - |
| Other cleaned up: | - |
| Other metals found: | - |
| Other metals cleaned: | - |
| Other contaminants found: | - |
| Other contams found description: | - |
| PAHs found: | - |
| PAHs cleaned up: | - |
| PCBs found: | - |
| PCBs cleaned up: | - |
| Petro products found: | Y |
| Petro products cleaned: | - |
| Sediments found: | - |
| Sediments cleaned: | - |
| Soil affected: | Y |
| Soil cleaned up: | - |
| Surface water cleaned: | - |
| VOCs found: | - |
| VOCs cleaned: | - |
| Cleanup other description: | - |
| Num. of cleanup and re-dev. jobs: | - |
| Past use greenspace acreage: | - |
| Past use residential acreage: | - |
| Surface Water: | - |
| Past use commercial acreage: | .11 |
| Past use industrial acreage: | - |
| Future use greenspace acreage: | - |
| Future use residential acreage: | - |
| Future use commercial acreage: | - |
| Future use industrial acreage: | - |
| Superfund Fed. landowner flag: | N |
| Arsenic cleaned up: | - |
| Cadmium cleaned up: | - |
| Chromium cleaned up: | - |
| Copper cleaned up: | - |
| Iron cleaned up: | - |

**FORMER CHILOQUIN TEXACO (Continued)** **1024456344**

| | |
|---|---|
| mercury cleaned up: | - |
| Nickel Cleaned Up: | - |
| No clean up: | - |
| Pesticides cleaned up: | - |
| Selenium cleaned up: | - |
| SVOCs cleaned up: | - |
| Unknown clean up: | - |
| Arsenic contaminant found: | - |
| Cadmium contaminant found: | - |
| Chromium contaminant found: | - |
| Copper contaminant found: | - |
| Iron contaminant found: | - |
| Mercury contaminant found: | - |
| Nickel contaminant found: | - |
| No contaminant found: | - |
| Pesticides contaminant found: | - |
| Selenium contaminant found: | - |
| SVOCs contaminant found: | - |
| Unknown contaminant found: | - |
| Future Use: Multistory | - |
| Media affected Bluiding Material: | - |
| Media affected indoor air: | - |
| Building material media cleaned up: | - |
| Indoor air media cleaned up: | - |
| Unknown media cleaned up: | - |
| Past Use: Multistory | Not reported |
| Property Description: | Klamath County acquired the property through tax foreclosure. |
| Below Poverty Number: | 124 |
| Below Poverty Percent: | 20.46 |
| Meidan Income: | 2127 |
| Meidan Income Number: | 317 |
| Meidan Income Percent: | 52.31 |
| Vacant Housing Number: | 110 |
| Vacant Housing Percent: | 30.01 |
| Unemployed Number: | 42 |
| Unemployed Percent: | 6.93 |

---

**A4** **SMITH DANIEL L** **EDR Hist Auto** **1020170753**
**WSW** **FIRST & CHOCKTOOT** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.003 mi.**
**15 ft.** **Site 4 of 6 in cluster A**

**Relative:** EDR Hist Auto
**Lower**

**Actual:**
**4195 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1988 | SMITH DANIEL L | Gasoline Service Stations |
| 1989 | SMITH DANIEL L | Gasoline Service Stations, NEC |
| 1990 | SMITH DANIEL L | Gasoline Service Stations, NEC |
| 1991 | SMITH DANIEL L | Gasoline Service Stations, NEC |
| 1992 | SMITH DANIEL L | Gasoline Service Stations, NEC |
| 1993 | SMITH DANIEL L | Gasoline Service Stations, NEC |
| 1997 | CHILOQUIN TEXACO AND FOODMART | Gasoline Service Stations |

**A5**
**WSW**
**< 1/8**
**0.003 mi.**
**15 ft.**

**CHILOQUIN TEXACO**
**1ST & CHOCKTOOT**
**CHILOQUIN, OR 97624**

**Site 5 of 6 in cluster A**

**Relative: Lower**
**Actual: 4195 ft.**

**Database(s):** LUST
**EDR ID Number:** S119015203
**EPA ID Number:** N/A

LUST:

| | |
|---|---|
| Name: | CHILOQUIN TEXACO |
| Address: | 1ST & CHOCKTOOT |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Region: | Eastern Region |
| Facility ID: | 18-94-0030 |
| Cleanup Received Date: | 07/18/1994 |
| Cleanup Start Date: | 07/15/1994 |
| **Cleanup Complete Date:** | **07/22/2019** |
| **Decode for Region:** | **East Region** |

---

**A6**
**NNW**
**< 1/8**
**0.022 mi.**
**115 ft.**

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN**
**1ST AVE & MAPLE ST (NW CORNER OF)**
**CHILOQUIN, OR 97624**

**Site 6 of 6 in cluster A**

**Relative: Lower**
**Actual: 4194 ft.**

**Database(s):** ECSI, VCP, FINDS
**EDR ID Number:** 1006852577
**EPA ID Number:** N/A

ECSI:

| | |
|---|---|
| Name: | UNION OIL BULK PLANT (FORMER) - CHILOQUIN |
| Address: | 1ST AVE. & MAPLE ST. (NW CORNER OF) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 3065 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | No Further Action |
| FACA ID: | 41247 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 26.40 / -121 51 50.80 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DC |
| Tax Lots: | 4900 |
| Size: | <1 acre |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 08/23/2013 |
| Created Date: | 05/11/2001 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | No Further Action |
| Decode For Legislative: | Not reported |
| Alias Name: | Unocal Bulk Plant - Chiloquin |

Narrative:

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN (Continued)** **1006852577**

NARR ID: 5741377
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 11/10/2005
Decode for NarcdID: Contamination
NARR Comments: (5/11/01 DMC/SAS) Site added to database for tracking purposes as a former bulk plant. (7/15/03 DMC/SAS) Site structures have been removed. (11/10/05 DMC/SAS) Site is a former Unocal petroleum bulk plant that was active from ~1925 through the 1940s and possibly into the 1960s. The site is currently a vacant lot with the building footprints from the former Unocal operation including the aboveground storage tank (AST) pads, office, warehouse, and garage. The site also has a mound in the center that may have been from the building and equipment dismantling.

NARR ID: 5741378
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 11/10/2005
Decode for NarcdID: Data Sources
NARR Comments: 1. Sanborn map (1931) and aerial photos. 2. Unocal response to Info Request (9/26/05). 3. Phone interview with current owner. 4. DEQ Strategy Recommendation (10/25/05).

NARR ID: 5747464
NARR Code: Hazardous Substance/Waste Types
Created By: DCROUSE
Created Date: 11/10/2005
Updated By: DCROUSE
Updated Date: 11/10/2005
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: petroleum products (no release confirmed)

NARR ID: 5747465
NARR Code: Manner of Release
Created By: DCROUSE
Created Date: 11/10/2005
Updated By: DCROUSE
Updated Date: 11/10/2005
Decode for NarcdID: Manner of Release
NARR Comments: Potential for past practice release (no release confirmed).

NARR ID: 5747466
NARR Code: Pathways Other Hazards
Created By: DCROUSE
Created Date: 11/10/2005
Updated By: DCROUSE
Updated Date: 11/10/2005
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Site is near the center of downtown Chiloquin and across the street from a public park/playground.

NARR ID: 5743824

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN (Continued)** **1006852577**

NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 07/15/2003
Updated By: DCROUSE
Updated Date: 01/30/2006
Decode for NarcdID: Remedial Action
NARR Comments: (7/15/03 DMC/SAS) Site screening recommended. (8/25/05 KJR/SAS) Site information request sent. Response due 9/30/05. (9/26/05 DMC/SAS) Unocal response received. (11/10/05 DMC/SAS) Site is a former petroleum bulk plant that is currently a vacant lot with the building footprints from the former Unocal operation still in place. Site is a high priority for confirmation sampling and Unocal will be given the option to work with DEQ's Voluntary Cleanup program. (12/12/05 DMC/SAS) Unocal rep called to say he just received the screening packet w/options letter, but needs additional time for historical review; ER/SAS agreed to run the 30-day deadline for a response from 12/12/05 - 1/11/05. (1/3/06 DMC/SAS) Unocal's written response to the DEQ options letter received; Unocal is conducting a limited Phase I and title search to determine if the the former bulk plant was operated by another party that also may be liable. The response time has been extended to 2/15/06. (1/30/06 DMC/SAS) Unocal reponse to DEQ Options Letter dated 1/26/06 received. According to Unocal: <quot>It is our intent to enter this site into the Voluntary Cleanup Program (VCP).<quot>

Administrative Action:
Action ID: 9425
Region: Eastern Region
Complete Date: 11/10/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/26/2005
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: 11/10/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2005
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: 9449
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN (Continued)** **1006852577**

Cleanup Flag: False
Created Date: 11/10/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9505
Region: Eastern Region
Complete Date: 11/10/2005
Rank Value: 98
Cleanup Flag: False
Created Date: 11/10/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Confirmatory Sampling recommended
Further Action: High
Comments: Not reported

Action ID: 9521
Region: Eastern Region
Complete Date: 01/30/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 03/01/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/10/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 03/01/2006
Rank Value: Not reported
Cleanup Flag: False

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN (Continued)** **1006852577**

Created Date: 01/03/2008
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: 9484
Region: Eastern Region
Complete Date: 03/01/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/03/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 02/14/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/02/2012
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: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
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: 05/11/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

**UNION OIL BULK PLANT (FORMER) - CHILOQUIN (Continued)** **1006852577**

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: 134255
Operation Status: Inactive
Common Name: Union Oil Bulk Plant - Chiloquin
Yrs of Operation: 1925 to at least 1940s (circa).
Comments: Former bulk plant; currently a vacant lot.
Updated Date: 11/10/2005
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 197551
SIC Code: 5171
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: UNION OIL BULK PLANT (FORMER) - CHILOQUIN
Address: 1ST AVE. & MAPLE ST. (NW CORNER OF)
City,State,Zip: CHILOQUIN, OR 97624
ECS Site ID: 3065
Facility Size: <1 acre
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 02/14/2008
End Date: 02/14/2008
Program: VCP
Latitude: 42.574
Longitude: -121.8641

FINDS:
Registry ID: 110014146085

Click Here:

Environmental Interest/Information System:
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**B7** **MAY-SLADE OIL CO/BULK SHELL** **LUST** **S101953665**
**WNW** **123 W CHOCKTOOT ST** **OR HAZMAT** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.050 mi.**
**265 ft.** **Site 1 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**4190 ft.**

LUST:

| | |
|---|---|
| Name: | MAY-SLADE OIL CO/BULK SHELL |
| Address: | 123 W CHOCKTOOT ST |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Region: | Eastern Region |
| Facility ID: | 18-91-0057 |
| Cleanup Received Date: | 08/05/1991 |
| Cleanup Start Date: | 08/05/1991 |
| **Cleanup Complete Date:** | **01/28/2013** |
| **Decode for Region:** | **East Region** |

HAZMAT:

| | |
|---|---|
| Name: | Not reported |
| Address: | 123 W CHOCKTOOT |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Responsble Party: | JOHN FAIRDO |
| RP Company: | MAY-SLADE OIL CO. |
| RP Address: | 953 S SPRING |
| RP City,St,Zip: | KLAMATH FALLS, OR 97601 |
| Facility ID: | 910423 |
| OERS Number: | Not reported |
| Dept Rsp: | CHILOQUIN-AGENCY LK RFPD |
| Narrative: | Not reported |
| Property Loss: | Not reported |
| Amount Released: | Not reported |
| Service County: | Not reported |
| Service Name: | Not reported |
| Incident Type: | Not reported |
| Civilian Casualty Activity: | Not reported |
| Chemical Name: | Not reported |
| Hazmat Area Affected: | Not reported |
| Hazmat Area Evacuated: | Not reported |
| Hazmat Container Type: | Not reported |
| Hazmat Physical State Released: | Not reported |
| Hazmat Released Into: | Not reported |
| Hazmat Released Volume Units: | Not reported |
| Hazmat Released Weight Units: | Not reported |
| Hazmat Released From: | Not reported |
| Hazmat Area Affected Measurement: | Not reported |
| Hazmat No. of People Evacuated: | Not reported |
| Hazmat No of Buildings Evacuated: | Not reported |
| Incident Content Loss: | Not reported |
| Civilian Casualty Patient Disposition: | Not reported |
| Incident Mixed Use Property: | Not reported |
| Location Type: | Not reported |
| Incident Aid Given Or Received: | Not reported |
| Incident AID Received from FDID: | Not reported |
| Incident Aided Department FDID: | Not reported |
| Person Involved Business Name: | Not reported |
| Person Involved First Name: | Not reported |
| Person Involved Last Name: | Not reported |
| Person Involved Type: | Not reported |
| Person Involved Phone Number: | Not reported |

**MAY-SLADE OIL CO/BULK SHELL (Continued)** **S101953665**

| | |
|---|---|
| Person Involved Primary Language: | Not reported |
| Hazmat Evacuated Measurement: | Not reported |
| Hazmat Story of Release: | Not reported |
| Remark: | Not reported |
| Incident District: | CHILOQUIN-AGENCY LK RFPD |
| Date Added: | 01/01/1985 |
| Unit: | Not reported |
| Agency Phone: | 0007832470 |
| Osfm Incident Report Number: | 910423 |
| Dept. Responding: | CHILOQUIN-AGENCY LK RFPD |
| Person Making Report: | DEWAINE HOLSTER |
| Title: | FIRE CHIEF |
| Agency: | CHILOQUIN-AGENCY LK RFPD |
| Phone: | 0007832470 |
| Date Of Incident: | 11/25/1991 |
| Call Time: | 2:37:00 PM |
| In Route: | 12:00:00 AM |
| Arrival: | 2:39:00 PM |
| Depart Scene: | 12:00:00 AM |
| Back In Quarters: | 12:00:00 AM |
| In Service: | 8:00:00 PM |
| Dist Of Incident: | CHILOQUIN-AGENCY LK RFPD |
| Were State Resources Used?: | False |
| Was Oers Notified?: | False |
| Oers Number: | Not reported |
| Team Number: | Not reported |
| Agency Report Number: | 91-158 |
| Unit: | Not reported |
| Highway: | Not reported |
| Mile Post: | Not reported |
| Scene Type: | Private Land |
| Area Type: | Commercial |
| Responsible Party(Ies): | JOHN FAIRDO |
| Company: | MAY-SLADE OIL CO. |
| Respcontact: | Not reported |
| Address: | 953 S SPRING |
| Resp City: | KLAMATH FALLS |
| Resp State: | OR |
| Resp ZipCode: | 97601 |
| Phone: | 0008844117 |
| Resp Phone2: | 0007832311 |
| Weather: | 0 |
| Temperature: | 0 |
| Wind Speed: | 0 |
| Wind Direction: | Not reported |
| Were Haz Materials Released?: | True |
| Operation Performed: | During Delivery/Shipment |
| Cause: | Unknown |
| Vehicle And Cargo: | 625 |
| Fixed Property: | 5000 |
| Total Loss: | $5,625.00 |
| Hazmat Population Density: | Not reported |
| HazMat Actions Taken - Description: | Not reported |
| Hazmat Factors Contributing To Release: | Not reported |
| Hazmat DOT Hazard Classification: | Not reported |
| Hazmat CAS Number: | Not reported |
| Hazardous Materials Release: | Not reported |

**MAY-SLADE OIL CO/BULK SHELL (Continued)** **S101953665**

Fire Incident Type: Not reported
Property Use: Not reported
Latitude: Not reported
Longitude: Not reported
Hazmat Disposition: Not reported

Chemical:
Chemical Info: 1793
Chemical Id: 13288
Incident Id: 910423
Chemical Name: GASOLINE
UNNA: Not reported
Amount At Risk: 5000
Amount Released: 500
Amount Measured: 2
Biological: False
Radiological: False

Chemical Id: 13288
Chemical Name: GASOLINE
Hazardous Ingredient: PETROLEUM DISTILLATES
Hazardous Class 1: 3.1
Hazardous Class 2: 6.3
Hazardous Rank: 2
Case Number: 8006619
UNNA Number: 1203
EPA Pest Reg: Not reported
EHA Chem: N
PSM Chem: N
CAA 112R Chem: N

Method:
Method Used Id: 4790
Incident Id: 910423
Identity Method: 5

Released:
Release Behavior Id: 3945
Incident Id: 910423
Behavior: 4

Release Behavior Id: 7256
Incident Id: 910423
Behavior: 10

Narrative:
Narrative Id: 3589
Incident Id: 910423
Incident Narrative: THE TRUCK DRIVER THAT WAS DELIVERING THE GASOLINE TO THE BULK PLANT PUMPED THE GAS INTO WRONG TANK THERE WAS NO PIPE GOING FROM THE OVERFLOW TO THE CATCH BASIN THE GAS FLOWED TO THE GOUND. THERE WAS APPROX 1 - 1 1/2 HRS HAD PASSED BEFORE WE KNEW OF THE SPILL. THE OWNER DID SEND ONE OF THE EMPLOYEES TO THE FIRE STATION TO INFORM US OF THE SPILL. THE OWNER CONTRACTED DEQ & A CLEAN UP CONTRACTOR BEFORE WE KNEW OF THE INCIDENT. THE INCIDENT OCCURRED IN THE MIDDLE OF CHILOQUIN.

**MAY-SLADE OIL CO/BULK SHELL (Continued)** **S101953665**

Incident Date: 11/25/1991

---

**8**
**SSW**
**< 1/8**
**0.051 mi.**
**267 ft.**

**CHILOQUIN AGENCY LAKE FIRE DISTRICT** **AST** **S111248037**
**156 S 2ND AVE** **HSIS** **N/A**
**CHILOQUIN, OR 97624**

**Relative:**
**Higher**

**Actual:**
**4196 ft.**

AST:

| | |
|---|---|
| Name: | CHILOQUIN AGENCY LAKE FIRE DISTRICT |
| Address: | 156 S 2ND AVE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Facility Id: | 24557 |
| Hazardous Substance: | BREATHING AIR |
| Reporting Quantities: | Not reported |
| Quantity Units: | Not reported |
| Physical State: | Not reported |
| Storage 1: | Above ground tank |
| County: | KLAMATH |
| Owner-Operator Name: | MICHAEL |
| Direct Site Phone: | 5417833860 |
| Report Class: | Annual |
| Report Year: | 2020 |
| Is Poisonous Gas: | No |
| Is Poisonous Material: | No |
| Is Biological Hazard: | No |
| Is Radioactive Material: | No |
| Is Explosive: | No |
| Status: | Not reported |
| Nature of Business: | FIRE PROTECTION DISTRICT |
| NAICS: | 922160 |
| Maximum Daily Amount Code: | 20 |
| Maximum Daily Amount Code Range: | 1,000-4,999 |
| Maximum Daily Amount Unit: | cuft |
| Is Solid State: | No |
| Is Liquid State: | No |
| Is Gas State: | Yes |
| Is Combustible Dust: | No |
| Is Fire Hazard: | No |
| Is Sudden Release of Pressure Hazard: | No |
| Is Reactive Hazard: | No |
| Is Immediate Hazard: | No |
| Is Delayed Hazard: | No |
| Is Corrosive to Metal: | No |
| Is Flammable: | No |
| Is Gas under Pressure: | Yes |
| Is Physical HNOC: | No |
| Is Emission of Gas With Water: | No |
| Is Organic peroxide: | No |
| Is Oxidizer: | No |
| Is Pyrophoric liquid or solid: | No |
| Is Pyrophoric gas: | No |
| Is Self-heating: | No |
| Is Self-reactive: | No |
| Is Acute toxicity: | No |
| Is Aspiration hazard: | No |
| Is Carcinogenicity: | No |

**CHILOQUIN AGENCY LAKE FIRE DISTRICT (Continued)** **S111248037**

| | |
|---|---|
| Is Germ cell mutagenicity: | No |
| Is Health HNOC: | No |
| Is Reproductive toxicity: | No |
| Is Respiratory or skin sensitization: | No |
| Is Serious eye damage or eye irritation: | No |
| Is Simple asphyxiant: | No |
| Is Skin corrosion or irritation: | No |
| Is Specific target organ toxicity: | No |

HSIS:

| | |
|---|---|
| Name: | CHILOQUIN AGENCY LAKE FIRE DISTRICT |
| Address: | 156 S 2ND AVE |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Facility ID: | 024557 |
| Department Or Division Of Company: | Not reported |
| Chemical Is Extremely Hazardous Substance (EHS: | Not reported |
| Contains 112R: | Not reported |
| Facility Has Written Emergency Plan: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| Manager Name: | Not reported |
| Business Phone: | Not reported |
| Mailing Address: | Not reported |
| Mailing City: | Not reported |
| Mailing State: | Not reported |
| Mailing Zip: | Not reported |
| No. of Employees: | Not reported |
| Day Phone: | Not reported |
| Placard: | Not reported |
| Fire Dept Code: | Not reported |
| FD: | CHILOQUIN-AGENCY LAKE RFPD |
| Sprinkler System: | Not reported |
| Emergency Contact: | Not reported |
| Emergency Procedure: | Not reported |
| Business Type: | Not reported |
| Facility Type: | Government |
| Department: | STATION 1 |
| Status: | ACTIVE |
| Latitude: | 42.5754 |
| Longitude: | -121.863 |
| Status TRI: | Active |
| Status RMP: | Active |
| Status PSM: | Active |
| Status CR2K: | Inactive |
| Status 302: | Active |
| Owner Name: | MICHAEL COOK |
| Last Reported ID: | 34013 |
| Case Number: | 7727379 |
| Chemical Name: | BREATHING AIR |
| EHS Name: | Not reported |
| Is Pure: | No |
| Is Mix: | Yes |
| Is EHS: | Not reported |
| Mixture Component: | Not reported |
| Maximum Daily Amount Code: | 20 |

**CHILOQUIN AGENCY LAKE FIRE DISTRICT (Continued)** **S111248037**

| | |
|---|---|
| Maximum Daily Amount Unit: | cuft |
| Chemical Added Date: | 02/20/2017 |
| Is Chem PSM: | No |
| Is Chem 112R: | No |
| Is Chem 302: | No |
| Is Pesticide: | No |
| Is Fertilizer: | No |
| Physical State: | Gas |
| UNNA Number: | 1002 |
| NFPA Health: | 0 |
| NFPA Flammability: | 0 |
| NFPA Reactivity: | 0 |
| NFPA Special Notice: | Not reported |
| Hazards: | Physical Flammable |
| Number of Days Onsite: | 365 |
| Year: | 2018 |

| | |
|---|---|
| Case Number: | Not reported |
| Chemical Name: | Not reported |
| EHS Name: | Not reported |
| Is Pure: | Not reported |
| Is Mix: | Not reported |
| Is EHS: | Not reported |
| Mixture Component: | Not reported |
| Maximum Daily Amount Code: | Not reported |
| Maximum Daily Amount Unit: | Not reported |
| Chemical Added Date: | Not reported |
| Is Chem PSM: | Not reported |
| Is Chem 112R: | Not reported |
| Is Chem 302: | Not reported |
| Is Pesticide: | Not reported |
| Is Fertilizer: | Not reported |
| Physical State: | Not reported |
| UNNA Number: | Not reported |
| NFPA Health: | Not reported |
| NFPA Flammability: | Not reported |
| NFPA Reactivity: | Not reported |
| NFPA Special Notice: | Not reported |
| Hazards: | Not reported |
| Number of Days Onsite: | Not reported |
| Year: | Not reported |

Chemical:

| | |
|---|---|
| Chemical Name: | BREATHING AIR |
| Physical Description: | GAS |
| Case Number: | 7727379 |
| Facility Id: | 024557 |
| Physical State Of The Substance: | 3 |
| Average Amount Possessed During The Year Code: | 11 |
| Maximum Amount Possessed During The Year Code: | 11 |
| Applicable Unit Of Measure Code: | 3 |
| Description Of The Unit Of Measure: | CUBIC FEET |
| Type Code: | L |
| Description: | CYLINDER |
| Type Code: | Not reported |
| Temperature Description: | Not reported |
| Pressure of Code: | 2 |

**CHILOQUIN AGENCY LAKE FIRE DISTRICT (Continued)** **S111248037**

| | |
|---|---|
| Pressure Description: | GREATER THAN NORMAL PRESSURE |
| Pressure of Code: | Not reported |
| Pressure Description: | Not reported |
| Temperature Description: | NORMAL TEMPERATURE |
| Temperature of The Hazardous Substance Code: | 4 |
| Temperature Description: | Not reported |
| Temperature of The Hazardous Substance Code: | Not reported |
| Days Hazardous Substance On Site During Year: | 365 |
| Is The Substance Protected A Trade Secret: | False |
| Description Of The Max Qnty Code: | 500-999 |
| Description Of The Avg Qnty Code: | 500-999 |
| Most Hazardous Ingridient: | NITROGEN |
| United Nations/north America 4 Digit Class Number: | 1002 |
| Hazard Rank: | 2 |
| EHS Ingredient: | Not reported |
| Substance Pure: | False |
| Substance Mix: | True |
| First Hazardous Class Code For Chemical: | Non-flammable Gas |
| Second Hazardous Class Code For Chemical: | Not reported |
| Third Hazardous Class Code For Chemical: | Not reported |
| Hazard Class 1 Of The Chemical: | 2.2 |
| Hazard Class 2 Of The Chemical: | Not reported |
| Hazard Class 3 Of The Chemical: | Not reported |

Additional Chemical:

| | |
|---|---|
| Chemical Is A Toxic 313 Chemical: | N |
| EPA Pesticide Registration Number: | Not reported |
| Contains 112R: | N |
| Contains EHS: | N |
| Fertilizer: | N |
| Pesticide: | N |
| Contains 313: | N |

---

**C9** **AUTO REPAIR - CHILOQUIN** **ECSI** **S110638440**
**East** **220 E CHOCKTOOT ST** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.057 mi.**
**300 ft.** **Site 1 of 4 in cluster C**

**Relative:**
**Higher**

**Actual:**
**4212 ft.**

ECSI:

| | |
|---|---|
| Name: | AUTO REPAIR - CHILOQUIN |
| Address: | 220 E CHOCKTOOT ST |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 5389 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 117331 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 37.90 / -121 51 55.40 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |

**AUTO REPAIR - CHILOQUIN (Continued)** **S110638440**

Range Coord: 7.00
Range Zone: E
Section Coord: 34
Qtr Section: DC
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: KROBERT
Update Date: 07/26/2012
Created Date: 08/03/2010
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Narrative:
NARR ID: 5754111
NARR Code: Contamination
Created By: KROBERT
Created Date: 07/26/2012
Updated By: KROBERT
Updated Date: 07/26/2012
Decode for NarcdID: Contamination
NARR Comments: (8/18/10 DMC/SAS) Oregon Department of Transporation (ODOT) discovered petroleum contamination while sampling for a street project. See also ECSI 5407

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 08/03/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/03/2010
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: 08/03/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/03/2010
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

**C10** **MAY-SLADE OIL CO** **UST** **U000437568**
**East** **220 W CHOCKFOOT** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.058 mi.**
**306 ft.** **Site 2 of 4 in cluster C**

**Relative:** **Higher**
**Actual:** **4213 ft.**

UST:

| | |
|---|---|
| Name: | MAY-SLADE OIL CO |
| Address: | 220 W CHOCKFOOT |
| City: | CHILOQUIN |
| Facility ID: | 10724 |
| Facility Telephone: | (503)884-4117 |
| Permittee Name: | R L SLADE, PRESIDENT |
| Number of Permitted Tanks: | Not reported |
| Active Tanks: | Not reported |
| Decommissioned Tanks: | 1 |
| Number of Tanks: | 1 |

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**B11** **CHILOQUIN STANDARD OIL BULK PLANT** **ECSI** **1006853095**
**West** **CHOCKTOOT ST** **VCP** **N/A**
**< 1/8** **CHILOQUIN, OR 97624** **BROWNFIELDS**
**0.058 mi.** **FINDS**
**306 ft.** **Site 2 of 4 in cluster B**

**Relative:** **Lower**
**Actual:** **4189 ft.**

ECSI:

| | |
|---|---|
| Name: | CHILOQUIN STANDARD OIL BULK PLANT (FORMER) |
| Address: | CHOCKTOOT ST |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 2559 |
| Brown ID: | Brownfield Site - No Public Sector Assistance |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 831 |
| Investigation: | No Further Action |
| FACA ID: | 40899 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 36.10 / -121 51 51.10 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DC |
| Tax Lots: | Not reported |
| Size: | 1.4 acres |
| NPL: | False |
| Orphan: | False |
| Updated By: | DCROUSE |
| Update Date: | 10/12/2005 |
| Created Date: | 04/14/2000 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Brownfield Site - no Public Sector Assistance |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | No Further Action |
| Decode For Legislative: | Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420 |

Alias Name: Chevron Bulk Plant - Chiloquin

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Narrative:

NARR ID: 5739547
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 01/29/2004
Decode for NarcdID: Contamination
NARR Comments: (12/30/03 KJR/VCP) In April 2000, the City of Chiloquin excavated a trench to repair a water line at the corner of Klamath Avenue and Chocktoot Street. The trench is located adjacent to the northern corner of the former Standard Oil Bulk Plant and west from the former Shell (May-Slade) Bulk Plant. Petroleum contaminated soil and water were encountered during excavation activities. A soil sample collected by the City and analyzed for hydrocarbon identification indicated the presence of gasoline and heavy oil but the sample was not quantified. A soil sample was also collected by DEQ staff and analyzed for hydrocarbon identification. No gasoline, diesel, or heavy oil was detected. Following the discovery of the impacts near the water line, Chevron Products Company assessed the site to determine if water line contamination was related to their operations. Not reported

NARR ID: 5749974
NARR Code: General Site Description
Created By: GWISTAR
Created Date: 12/20/2007
Updated By: GWISTAR
Updated Date: 12/20/2007
Decode for NarcdID: General Site Description
NARR Comments: The Williamson River runs parallel to the site about one block to the west. Directly east is the site of the old Standard Oil Bulk Plant. To the northeast is the site of the currently operating Ferrells Fuel Bulk Plant, recently purchased by Clough Oil Company. To the west is a small heavy equipment shop rumored to have been a service station with a pump island out in front. Approximately one block east is the site of an old Copeland Lumber yard that locals recall having a leaking underground storage tank from which many loads of soil were removed. It was likely owned by Southern Pacific Railroad.

NARR ID: 5739548
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 01/16/2003
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum products. DEQ staff noted contamination on-site between 1993 and 2002, and a March 1998 report from Western Environmental documented BTEX compounds in groundwater.

NARR ID: 5739550
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 03/23/2004

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Decode for NarcdID: Remedial Action
NARR Comments: (4/6/00 MMR/SAS) Site visit 4/6/00. (4/5/01 WCW/VCS) Intent to Participate (in Voluntary Cleanup Program) form received from Chevron. Signed 4/2/01. (Information from Floyd Hescock, 2/03) In the summer of 2000, the City of Chiloquin received a service request from the Village Clinic to connect to city water/sewer lines. During ensuing water hookup activities, which occurred on Chocktoot St. about 300 ft. west of the site at a depth of 5 ft., no contamination was found. However, contamination was found during sewer hookup activities, which occurred behind the automotive shop, in an alley along the western property line. The contamination was encountered at the hardpan level, about 30 ft. from the Williamson River. (3/21/03 KJR/VCP) Chevron Products Company performed a site assessment in September 2003, installing six wells and two borings. HCID analysis indicated the presence of gasoline and diesel across the site, and heavy oil on the SE side of the warehouse and at the north property boundary. Soil was not quantified for TPH; additional sampling will be required. Constituents, including BTEX, metals, and PAHs, were detected in soil, and low levels of constituents were also detected in groundwater. (12/30/03 KJR/VCP) To evaluate the findings of the site assessments, the following were used: Risk-Based Concentrations from the Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 22, 2003 and Preliminary Remedial Goals (PRGs) dated October 1, 2002. The property is industrially zoned and the City of Chiloquin has indicated this zoning is unlikely to change. Six groundwater monitoring wells and two soil borings were drilled at the site in September 2002. Groundwater was present between 3.9 feet below ground surface (bgs) and 6.5 feet bgs. A total of 18 soil samples were submitted for hydrocarbon identification by NW Method TPH-HCID. Concentrations of gasoline, diesel, and/or heavy oil were detected in eight of the samples. The laboratory failed to quantify the samples with hydrocarbons identified. As a result, six additional soil borings were drilled in June 2003 to collect soil samples from the areas where hydrocarbons were detected during the September 2002 sampling event. Five soil samples were analyzed for gasoline by TPH Method TPH-G. Gasoline was detected in all five soil samples at levels ranging from 20 to 550 parts per million (ppm). Eight soil samples were analyzed for diesel and heavy oil by TPH Method TPH-Dx. Diesel was detected in all eight samples ranging from 4.6 to 2,300 ppm. Heavy oil was detected in two of the eight samples at 10 ppm and 79 ppm. All detected concentrations were less than site-specific gasoline and diesel RBCs calculated for the site. Select soil samples, collected during the September 2002 sampling event, were also analyzed for select VOCs: benzene, toluene, ethylbenzene, and xylenes (BTEX), MtBE, EDB, EDC, naphthalene, isopropylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB) by EPA Method 8260B, for PAHs by EPA Method 8270 SIM, and for total RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, silver, and selenium) by EPA Methods 6020/6010B. Toluene, ethylbenzene, xylenes, isopropylbenzene, n-propylbenzene, 1,2,4-TMB, 1,3,5-TMB were detected in one or more of the 15 soil samples analyzed at levels ranging from 0.0011 to 20 ppm. All detected concentrations except for concentrations of 1,2,4-TMB and 1,3,5-TMB in boring B-2(2.5 feet) were less than their respective residential RBCs. 1,2,4-TMB (20 ppm) and 1,3,5-TMB (4.1 ppm) detected in boring B-2 at 2.5 feet are less than their respective occupational

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

leaching to groundwater levels (55 ppm, 12 ppm). One or more PAH compounds were detected in all seven soil samples analyzed. Concentrations ranged from 0.00059 to 30 ppm. All detected concentrations of PAHs are less than their respective residential RBCs. Total metals, except cadmium, were detected in the seven soil samples analyzed at levels of 0.019 to 194 ppm. All detected concentrations were less than their respective residential PRGs. Groundwater samples were collected from the six monitoring wells and analyzed for select VOCs: BTEX, MtBE, EDB, EDC, naphthalene, isopropylbenzene, n-propylbenzene, 1,2,4-TMB, 1,3,5-TMB by EPA Method 8260B, for PAHs by EPA Method 8270 SIM, and for dissolved RCRA 8 metals by EPA Methods 6020/6010B/7421. MtBE was detected in the groundwater from wells MW-1 through MW-5 at levels ranging from 2 to 9 parts per billion (ppb). N-propylbenzene at 3 ppb was detected in the groundwater from well MW 4. No BTEX, isopropylbenzene, 1,3,5-TMB, 1,2,4-TMB, EDB, or EDC was detected in any groundwater sample. With the exception of MtBE detected in groundwater from well MW-4 (9ppb), concentrations of MtBE and n-propylbenzene are less than their respective residential RBCs. MtBE detected in groundwater from well MW-4 is less than the occupational RBC of 38 ppb. One or more PAH compounds were detected in groundwater from wells MW-1 and MW-3 through MW 6. Concentrations ranged from 0.01 to 4 ppb. Concentrations of PAHs were less than their respective residential RBCs. Dissolved barium was detected in all six groundwater samples at 19.2 to 48 ppb. Concentrations of barium are less than tap water PRG levels. Arsenic, cadmium, chromium, lead, mercury, selenium, and silver were not detected. Three additional quarterly groundwater events were performed in January, June, and July 2003. Groundwater migration at the site is generally towards the west. Groundwater samples were analyzed for BTEX and MtBE by EPA Method 8260B, for PAHs by EPA Method 8270 SIM, and for dissolved or total lead by EPA Method 6010B. RCRA 8 metals were also analyzed during the January 2003 event. BTEX was detected during one or more sampling events in groundwater from wells MW-1 and MW-6 at levels ranging from 0.5 to 5.8 ppb. Concentrations of benzene are less than occupational RBC of 2.2 ppb. Concentrations of toluene, ethylbenzene, and xylenes are less than their respective residential RBCs. MtBE was detected during one or more sampling events in groundwater samples from wells MW-1 to MW-6 at levels ranging from 2 to 9 ppb. Only four concentrations of MtBE detected from wells MW-3 (9/18/02), MW-4 (7/31/03), and MW-5 (6/5/03, 7/31/03) exceeded the residential RBC of 6.4 ppb. However, all concentrations of MtBE are less than the occupational RBC of 38 ppb. One or more PAH compounds have been detected in the groundwater from the six monitoring wells. Detected PAHs were less than their respective residential or occupational RBCs for all three quarterly events. Dissolved lead concentrations were detected in wells MW-2 (14 ppm) and MW-6 (2 ppb) at concentrations less than residential RBC of 15 ppb. Groundwater in the vicinity of the site is used for drinking water. However, the City of Chiloquin has a municipal water system, which is the primary source of drinking water. The closest domestic well to the site is located approximately 100 feet upgradient. All concentrations detected in groundwater are less than occupational RBCs. Except for benzene, MtBE, benzo(a)pyrene, and dibenzo(a,h)anthracene, all groundwater concentrations are less than residential RBCs. The contamination observed during the water line excavation does not appear to be related to the Standard Bulk Plant site. Additional evaluation of the former Shell Bulk Plant should be

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

performed by the appropriate responsible party. Based on the available data and the preceding discussion, a no further action determination is proposed for the Standard Oil Bulk Plant site located at South Klamath Avenue and West Chocktoot Street in Chiloquin, Oregon. A final determination will be made after consideration of public comments. (3/23/04 KJR/VCP) NFA was issued 3/23/04. Investigations are on-going to determine the source of the contamination observed in the City's water line trench.

NARR ID: 5744530
NARR Code: Site History
Created By: GWISTAR
Created Date: 01/29/2004
Updated By: GWISTAR
Updated Date: 01/29/2004
Decode for NarcdID: Site History
NARR Comments: The site was an active petroleum bulk fuel facility from the 1920s to the late 1970s, located at the southern corner of the intersection of Klamath Ave. and Chocktoot St. in Chiloquin. The site consisted of a warehouse building, garage, truck loading and off-loading racks, rail car loading area, pump island, four above-ground storage tanks (ASTs) containing gasoline, aviation fuel, stove oil, and diesel, and associated piping. All facilities except the buildings have been removed from the site.

Administrative Action:
Action ID: 9484
Region: Eastern Region
Complete Date: 02/10/2003
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Eastern Region
Complete Date: 09/19/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Eastern Region
Complete Date: 01/21/2003
Rank Value: Not reported

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Cleanup Flag: False
Created Date: 01/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9428
Region: Eastern Region
Complete Date: 02/18/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/25/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Extension requested by owner/operator
Further Action: 0
Comments: Not reported

Action ID: 9430
Region: Eastern Region
Complete Date: 02/25/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/25/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Petition or request granted
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Eastern Region
Complete Date: 04/04/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Eastern Region
Complete Date: 04/06/2003
Rank Value: Not reported
Cleanup Flag: False

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Created Date: 04/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Not reported

Action ID: 9451
Region: Eastern Region
Complete Date: 04/11/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: 0
Comments: Not reported

Action ID: 9502
Region: Eastern Region
Complete Date: 03/13/2001
Rank Value: 103
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation recommended (RI)
Further Action: High
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 04/26/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
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: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 03/14/2001
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
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: 9419
Region: Eastern Region
Complete Date: 12/30/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Decision Not to List Site (on the CRL or Inventory)
Further Action: 0
Comments: Not reported

Action ID: 9511
Region: Eastern Region
Complete Date: 01/05/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/14/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 03/23/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/23/2004
Decode for AgencyID: Department of Environmental Quality

**CHILOQUIN STANDARD OIL BULK PLANT (Continued)** **1006853095**

Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133769
Operation Status: Inactive
Common Name: Chiloquin Standard Oil Bulk Plant
Yrs of Operation: 1950 (circa).
Comments: Facility believed to be around 50 yrs old.
Updated Date: 07/15/2003
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 197023
SIC Code: 5171
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: CHILOQUIN STANDARD OIL BULK PLANT (FORMER)
Address: CHOCKTOOT ST
City,State,Zip: CHILOQUIN, OR 97624
ECS Site ID: 2559
Facility Size: 1.4 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 03/23/2004
End Date: 03/23/2004
Program: VCS
Latitude: 42.5767
Longitude: -121.8642

OR BROWNFIELDS:
Name: CHILOQUIN STANDARD OIL BULK PLANT (FORMER)
Address: CHOCKTOOT ST
City,State,Zip: CHILOQUIN, OR 97624
Geolocation Id: 40899
Status: NO FURTHER STATE ACTION REQUIRED
Lat/Long: 42.5767 / -121.864

FINDS:
Registry ID: 110014151577

Click Here:

Environmental Interest/Information System:
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**12**
**NE**
**< 1/8**
**0.062 mi.**
**328 ft.**

**TELEPHONE UTILITIES OF EASTERN OREGON**
**2ND & YAHOOSKIN**
**CHILOQUIN, OR 97624**

**UST** **U000437576**
**N/A**

**Relative:**
**Higher**

**Actual:**
**4210 ft.**

UST:

| | |
|---|---|
| Name: | TELEPHONE UTILITIES OF EASTERN OREGON |
| Address: | 2ND & YAHOOSKIN |
| City: | CHILOQUIN |
| Facility ID: | 3505 |
| Facility Telephone: | (503)259-7260 |
| Permittee Name: | STEVE HUDSON, GENERAL PLANT SUPT. |
| Number of Permitted Tanks: | Not reported |
| Active Tanks: | Not reported |
| Decommissioned Tanks: | 1 |
| Number of Tanks: | 1 |

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**B13**
**WNW**
**< 1/8**
**0.063 mi.**
**332 ft.**

**UPRR BULK PLANT - CHILOQUIN**
**123 CHOCKTOOT ST.**
**CHILOQUIN, OR 97624**

**Site 3 of 4 in cluster B**

**ECSI** **S106044945**
**VCP** **N/A**

**Relative:**
**Lower**

**Actual:**
**4188 ft.**

ECSI:

| | |
|---|---|
| Name: | UPRR BULK PLANT - CHILOQUIN |
| Address: | 123 CHOCKTOOT ST. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 2435 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | No Further Action |
| FACA ID: | 16518 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 38.30 / -121 51 50.00 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DC |
| Tax Lots: | 1000 |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 08/19/2013 |
| Created Date: | 11/03/1999 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | No Further Action |
| Decode For Legislative: | Not reported |
| Alias Name: | Clough Oil Bulk Plant - Chiloquin |
| Alias Name: | May-Slade Oil - Chiloquin Bulk Plant |

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

Alias Name: Ferrell's Fuel Network Bulk Plant - Chiloquin
Alias Name: Shell Oil Bulk Plant - Chiloquin
Alias Name: Union Pacific Railroad - Chiloquin
Alias Name: -see also LUST 18-91-0057, 18-15-0057

Narrative:
NARR ID: 5738781
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: BSCHWAR
Updated Date: 07/19/2005
Decode for NarcdID: Contamination
NARR Comments: (11/3/99 DMC/SAS) ER/SAS contacted by UPRR concerning environmental activities on property they are leasing to the May-Slade Oil bulk plant. (3/14/03 JPD ER/SAS) Petroleum contamination found during water main repair along S. Klamath Street, SW of site in April 2000. Environmental data summary report prepared by UCI for Clough Oil in June 2000 documented significant petroleum-related contamination in soil and groundwater at the site dating back to 1991. Jim Clough stated that they stopped storing petroleum at the site in March 2003 - still leasing from UPRR using site as office space. (Bob Schwarz, July 18, 2005) The four groundwater monitoring wells at this site were sampled in December 2004 and March 2005. Maximum detected concentrations during these two rounds of monitoring: gasoline: 0.635 mg/l diesel: 1.469 mg/l benzene: 17.2 ug/l ethylbenzene: 65.5 ug/l MTBE: 10.5 ug/l xylenes: 135 ug/l 1,2,4-trimethylbenzene: 44 ug/l 1,3,5-trimethylbenzene: 5.66 ug/l isopropylbenzene: 4.71 ug/l n-propylbenzene: 12.8 ug/l acenaphthene: 0.519 ug/l fluoranthene: 0.227 ug/l fluorene: 1.06 ug/l pheanthrene: 0.431 ug/l pyrene: 0.322 ug/l

NARR ID: 5738782
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: BSCHWAR
Updated Date: 07/18/2005
Decode for NarcdID: Data Sources
NARR Comments: 1. LUST database printout. 2. Correspondence from UPRR (8/4/99) data summary report, UCI June 2000. December 2004 Groundwater Monitoring Report, Kennedy/Jenks, March 21, 2005. First Quarter 2005 Groundwater Monitoring Report, Kennedy/Jenks, May 17, 2005.

NARR ID: 5738783
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: petroleum

NARR ID: 5743149
NARR Code: Manner of Release
Created By: JDADOLY
Created Date: 03/14/2003
Updated By: JDADOLY

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

Updated Date: 03/14/2003
Decode for NarcdID: Manner of Release
NARR Comments: (3/14/03 JPD/SAS) - Past practices.

NARR ID: 5743150
NARR Code: Pathways Other Hazards
Created By: JDADOLY
Created Date: 03/14/2003
Updated By: JDADOLY
Updated Date: 03/14/2003
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: (3/14/03 JPD/SAS) Shallow groundwater impacted at site, within several hundred feet of Williamson River, nearby water main impacted by petroleum contamination.

NARR ID: 5738784
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: BSCHWAR
Updated Date: 02/01/2013
Decode for NarcdID: Remedial Action
NARR Comments: (11/3/99 DMC/SAS) Site screening recommended; site also has a LUST file (log #18-91-0057), but the facility is mostly ASTs and should be handled by SAS. (3/13/01 JPD/SAS) Screening completed. A remedial investigation is needed at the site, under a high priority. (3/12/03 JPD/SAS) Activity at site has stalled due to lack of clear ownership - site may belong to Klamath Tribes. Data summary report prepared for Ed Clough, LLC, June 2000, lab data documents petroleum releases to soil and groundwater dating back to 1991. Gasoline, diesel and heavy oil releases. 1/24/05 Bob Schwarz: DEQ reviewed and approved a sampling and analysis plan, submitted by Kennedy/Jenks Consultants and dated June 21, 2004. July 18, 2005, Bob Schwarz: The four groundwater monitoring wells at the site were sampled in December 2004 and March 2005. Results are presented in the Contamination portion of this site narrative. (March 7, 2008, Bob Schwarz) Union Pacfic Railroad has advised DEQ that they plan to contact other responsible parties to share the cost of remaining investigation and, if necessary, cleanup activities. (Nov. 23, 2011, Bob Schwarz) CH2M HILL, on behalf of Union Pacific Railroad, conducted a feasibility study to determine how best to address contamination at the site. The selected remedy involves excavation of approximately 2,160 cubic yards of petroleum-contaminated soil, which would be disposed of at a permitted landfill. DEQ will propose this remedy for public comment during December 2011. The basis for this proposal, and other site information, are described in the attached Record of Decision. The November 2011 feasibility study is also attached. (Jan. 10, 2012, Bob Schwarz) No comments were submitted during the December 2011 public comment period. DEQ signed the Record of Decision on January 6, 2012. (Feb. 1, 2013, Bob Schwarz) The proposed remedial action was conducted between August and October 2012. Based on confirmation sampling, DEQ concluded that residual contamination does not exceed acceptable risk levels. DEQ therefore issued a No Further Action determination on January 28, 2013. A copy of the NFA letter is attached.

NARR ID: 5743133

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

NARR Code: Site History
Created By: JDADOLY
Created Date: 03/12/2003
Updated By: ECLARK
Updated Date: 06/12/2006
Decode for NarcdID: Site History
NARR Comments: (3/12/03 JPD/SAS) site was thought to be owned by Union Pacific Railroad for many years. UPRR leased site to various operators including Shell Oil, May-Slade Oil. Ed Clough leased site from UPRR March 200 to march 2005. Title search by UPRR apparently indicated that the Klamath Tribes may own property. However, UPRR collected rent on property for several decades and could not produce any evidence to support this claim. (6/12/06) This site is cross referenced to LUST 18-91-0057, assigned to Bob Schwarz.

Administrative Action:
Action ID: 9498
Region: Eastern Region
Complete Date: 01/14/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/14/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Eastern Region
Complete Date: 01/26/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/26/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9428
Region: Eastern Region
Complete Date: 03/15/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Extension requested by owner/operator
Further Action: 0
Comments: Not reported

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

Action ID: 9438
Region: Eastern Region
Complete Date: 05/09/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/09/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 01/28/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/16/2008
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: 9443
Region: Eastern Region
Complete Date: 01/28/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/19/2013
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: 9417
Region: Eastern Region
Complete Date: 10/31/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/19/2013
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility delisted from Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9426

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

Region: Eastern Region
Complete Date: 07/21/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/24/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: 0
Comments: Not reported

Action ID: 9502
Region: Eastern Region
Complete Date: 03/13/2001
Rank Value: 103
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation recommended (RI)
Further Action: High
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 03/13/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
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: Not reported
Comments: Not reported

Action ID: 9449
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

Complete Date: 03/13/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
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: 11/03/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
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: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 11/03/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133637
Operation Status: Inactive
Common Name: May-Slade Oil - Chiloquin Bulk Plant

**UPRR BULK PLANT - CHILOQUIN (Continued)** **S106044945**

| | |
|---|---|
| Yrs of Operation: | 1931 to 2005 (circa). |
| Comments: | Former bulk plant; dismantled. |
| Updated Date: | 07/26/2005 |
| Updated By: | DCROUSE |
| Decode for OpstatID: | Inactive |
| Operations SIC Id: | 196854 |
| SIC Code: | 5171 |
| Created By: | Not reported |
| Created Date: | 12/17/2002 |

VCS:

| | |
|---|---|
| Name: | UPRR BULK PLANT - CHILOQUIN |
| Address: | 123 CHOCKTOOT ST. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| ECS Site ID: | 2435 |
| Facility Size: | Not reported |
| Action: | NO FURTHER STATE ACTION REQUIRED |
| Start Date: | 01/28/2013 |
| End Date: | 01/28/2013 |
| Program: | VCS |
| Latitude: | 42.5773 |
| Longitude: | -121.8639 |

---

**C14** **CHILOQUIN CLEANING & PRESSING (FORMER)** **ECSI** **S106980794**
**East** **CHOCKTOOT ST. & 2ND AVE. (SW CORNER OF)** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.068 mi.**
**361 ft.** **Site 3 of 4 in cluster C**

**Relative:**
**Higher**

**Actual:**
**4216 ft.**

ECSI:

| | |
|---|---|
| Name: | CHILOQUIN CLEANING & PRESSING (FORMER) |
| Address: | CHOCKTOOT ST. & 2ND AVE. (SW CORNER OF) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 3182 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 43468 |
| Further Action: | 260 |
| Lat/Long (dms): | 42 34 35.79 / -121 51 38.73 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DC |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 09/08/2014 |

**CHILOQUIN CLEANING & PRESSING (FORMER) (Continued)** **S106980794**

Created Date: 11/26/2001
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Low
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Chiloquin Dry Cleaner

Narrative:
NARR ID: 5741804
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (11/26/01 DMC/SAS) Site added to database for tracking purposes as a former dry cleaner. No information concerning a release of hazardous substances has been received.

NARR ID: 5741805
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1. Sanborn Map (1931).

Administrative Action:
Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
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: 11/26/2001
Rank Value: 3
Cleanup Flag: False
Created Date: 12/17/2002
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: Low
Comments: Not reported

**CHILOQUIN CLEANING & PRESSING (FORMER) (Continued)** **S106980794**

Operations:

| | |
|---|---|
| Operation Id: | 134353 |
| Operation Status: | Inactive |
| Common Name: | Chiloquin Dry Cleaner (Former) |
| Yrs of Operation: | 1938 (circa). |
| Comments: | Former dry cleaner. |
| Updated Date: | 01/08/2002 |
| Updated By: | dmc |
| Decode for OpstatID: | Inactive |
| Operations SIC Id: | 197644 |
| SIC Code: | 7216 |
| Created By: | Not reported |
| Created Date: | 12/17/2002 |

---

**15** **TONY REYES** **RCRA NonGen / NLR** **1015748814**
**SE** **123 SOUTH THIRD STREET** **ORSTATE06675**
**< 1/8** **CHILOQUIN, OR 97624**
**0.070 mi.**
**368 ft.**

**Relative:** **Higher**

**Actual:** **4205 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20061117 |
| Handler Name: | TONY REYES | |
| Handler Address: | | 123 SOUTH THIRD STREET |
| Handler City,State,Zip: | | CHILOQUIN, OR 97624 |
| EPA ID: | | ORSTATE06675 |
| Contact Name: | | Not reported |
| Contact Address: | | Not reported |
| Contact City,State,Zip: | | Not reported |
| Contact Telephone: | | Not reported |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 10 |
| Land Type: | | Other |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | Not reported |
| Mailing City,State,Zip: | | Not reported |
| Owner Name: | | Not reported |
| Owner Type: | | Not reported |
| Operator Name: | | Not reported |
| Operator Type: | | Not reported |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |

**TONY REYES (Continued)** **1015748814**

| | |
|---|---|
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20140602 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20061117 |
| Handler Name: TONY REYES | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |

**TONY REYES (Continued)** **1015748814**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20061018
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: ORJRI
Evaluation Responsible Sub-Organization: ER
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported

**TONY REYES (Continued)** **1015748814**

| | |
|---|---|
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

---

**16** **UPRR - CHILOQUIN** **LUST** **S118140465**
**NNE** **211 N 1ST AVE # 221** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.077 mi.**
**404 ft.**

**Relative:** LUST:
**Higher**

**Actual:**
**4200 ft.**

| | |
|---|---|
| Name: | UPRR - CHILOQUIN |
| Address: | 211 N 1ST AVE # 221 |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Region: | Eastern Region |
| Facility ID: | 18-15-0790 |
| Cleanup Received Date: | 05/22/2015 |
| Cleanup Start Date: | Not reported |
| **Cleanup Complete Date:** | **Not reported** |
| **Decode for Region:** | **East Region** |

---

**B17** **MODOC MOTORS** **ECSI** **S110638450**
**WNW** **CHOCKTOOT ST** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.093 mi.**
**493 ft.** **Site 4 of 4 in cluster B**

**Relative:** ECSI:
**Lower**

**Actual:**
**4185 ft.**

| | |
|---|---|
| Name: | MODOC MOTORS |
| Address: | CHOCKTOOT ST |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 5402 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 117332 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 38.60 / -121 51 52.20 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DB |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | DCROUSE |

**MODOC MOTORS (Continued)** **S110638450**

Update Date: 10/21/2010
Created Date: 08/18/2010
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Narrative:
NARR ID: 5752395
NARR Code: Contamination
Created By: DCROUSE
Created Date: 08/18/2010
Updated By: DCROUSE
Updated Date: 08/18/2010
Decode for NarcdID: Contamination
NARR Comments: (8/18/10 DMC/SAS) Site added for tracking as a former auto facility.

NARR ID: 5752396
NARR Code: Data Sources
Created By: DCROUSE
Created Date: 08/18/2010
Updated By: DCROUSE
Updated Date: 08/18/2010
Decode for NarcdID: Data Sources
NARR Comments: 1. DMC/SAS drivebys (12/3/09).

NARR ID: 5752397
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/18/2010
Updated By: DCROUSE
Updated Date: 08/18/2010
Decode for NarcdID: Remedial Action
NARR Comments: (8/18/10 DMC/SAS) Site screening recommended.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 08/18/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/18/2010
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: 08/18/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/26/2012
Decode for AgencyID: Department of Environmental Quality

**MODOC MOTORS (Continued)** **S110638450**

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: 135670
Operation Status: Inactive
Common Name: Modoc Motors
Yrs of Operation: Not reported
Comments: Former auto facility.
Updated Date: 08/18/2010
Updated By: DCROUSE
Decode for OpstatID: Inactive

---

**C18** **KLAMATH COUNTY SCHOOL DISTRICT** **AST** **S111251233**
**East** **131 S 3RD** **HSIS** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.099 mi.**
**524 ft.** **Site 4 of 4 in cluster C**

**Relative:**
**Higher**

**Actual:**
**4230 ft.**

AST:

| | |
|---|---|
| Name: | KLAMATH COUNTY SCHOOL DISTRICT |
| Address: | 131 S 3RD |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Facility Id: | 90392 |
| Hazardous Substance: | PROPANE |
| Reporting Quantities: | Not reported |
| Quantity Units: | Not reported |
| Physical State: | Not reported |
| Storage 1: | Above ground tank |
| County: | KLAMATH |
| Owner-Operator Name: | DARIN |
| Direct Site Phone: | 5417832321 |
| Report Class: | Annual |
| Report Year: | 2020 |
| Is Poisonous Gas: | No |
| Is Poisonous Material: | No |
| Is Biological Hazard: | No |
| Is Radioactive Material: | No |
| Is Explosive: | No |
| Status: | Not reported |
| Nature of Business: | PUBLIC HIGH SCHOOL GYMNASIUM |
| NAICS: | 611110 |
| Maximum Daily Amount Code: | 20 |
| Maximum Daily Amount Code Range: | 1,000-4,999 |
| Maximum Daily Amount Unit: | gal |
| Is Solid State: | No |
| Is Liquid State: | No |
| Is Gas State: | Yes |
| Is Combustible Dust: | No |
| Is Fire Hazard: | No |
| Is Sudden Release of Pressure Hazard: | No |
| Is Reactive Hazard: | No |
| Is Immediate Hazard: | No |
| Is Delayed Hazard: | No |

**KLAMATH COUNTY SCHOOL DISTRICT (Continued)** **S111251233**

| | |
|---|---|
| Is Corrosive to Metal: | No |
| Is Flammable: | Yes |
| Is Gas under Pressure: | Yes |
| Is Physical HNOC: | No |
| Is Emission of Gas With Water: | No |
| Is Organic peroxide: | No |
| Is Oxidizer: | No |
| Is Pyrophoric liquid or solid: | No |
| Is Pyrophoric gas: | No |
| Is Self-heating: | No |
| Is Self-reactive: | No |
| Is Acute toxicity: | No |
| Is Aspiration hazard: | No |
| Is Carcinogenicity: | No |
| Is Germ cell mutagenicity: | No |
| Is Health HNOC: | No |
| Is Reproductive toxicity: | No |
| Is Respiratory or skin sensitization: | No |
| Is Serious eye damage or eye irritation: | No |
| Is Simple asphyxiant: | Yes |
| Is Skin corrosion or irritation: | Yes |
| Is Specific target organ toxicity: | No |

HSIS:

| | |
|---|---|
| Name: | KLAMATH COUNTY SCHOOL DISTRICT |
| Address: | 131 S 3RD |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Facility ID: | 090392 |
| Department Or Division Of Company: | Not reported |
| Chemical Is Extremely Hazardous Substance (EHS: | Not reported |
| Contains 112R: | Not reported |
| Facility Has Written Emergency Plan: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| Manager Name: | Not reported |
| Business Phone: | Not reported |
| Mailing Address: | Not reported |
| Mailing City: | Not reported |
| Mailing State: | Not reported |
| Mailing Zip: | Not reported |
| No. of Employees: | Not reported |
| Day Phone: | Not reported |
| Placard: | Not reported |
| Fire Dept Code: | Not reported |
| FD: | CHILOQUIN-AGENCY LAKE RFPD |
| Sprinkler System: | Not reported |
| Emergency Contact: | Not reported |
| Emergency Procedure: | Not reported |
| Business Type: | Not reported |
| Facility Type: | Private |
| Department: | CHILOQUIN HS BIG GYM |
| Status: | ACTIVE |
| Latitude: | 42.5761 |
| Longitude: | -121.86 |
| Status TRI: | Active |

**KLAMATH COUNTY SCHOOL DISTRICT (Continued)** **S111251233**

| | |
|---|---|
| Status RMP: | Inactive |
| Status PSM: | Active |
| Status CR2K: | Inactive |
| Status 302: | Active |
| Owner Name: | DARIN MARTINS |
| Last Reported ID: | 39212 |
| Case Number: | 74986 |
| Chemical Name: | PROPANE |
| EHS Name: | Not reported |
| Is Pure: | Yes |
| Is Mix: | No |
| Is EHS: | Not reported |
| Mixture Component: | Not reported |
| Maximum Daily Amount Code: | 20 |
| Maximum Daily Amount Unit: | gal |
| Chemical Added Date: | 02/13/2017 |
| Is Chem PSM: | No |
| Is Chem 112R: | Yes |
| Is Chem 302: | No |
| Is Pesticide: | No |
| Is Fertilizer: | No |
| Physical State: | Gas |
| UNNA Number: | 1978 |
| NFPA Health: | 2 |
| NFPA Flammability: | 4 |
| NFPA Reactivity: | 0 |
| NFPA Special Notice: | N/A |
| Hazards: | Health Asphyxiant, Health SkinCorrosion, Physical Combustive, Physical Flammable |
| Number of Days Onsite: | 365 |
| Year: | 2018 |

| | |
|---|---|
| Case Number: | Not reported |
| Chemical Name: | Not reported |
| EHS Name: | Not reported |
| Is Pure: | Not reported |
| Is Mix: | Not reported |
| Is EHS: | Not reported |
| Mixture Component: | Not reported |
| Maximum Daily Amount Code: | Not reported |
| Maximum Daily Amount Unit: | Not reported |
| Chemical Added Date: | Not reported |
| Is Chem PSM: | Not reported |
| Is Chem 112R: | Not reported |
| Is Chem 302: | Not reported |
| Is Pesticide: | Not reported |
| Is Fertilizer: | Not reported |
| Physical State: | Not reported |
| UNNA Number: | Not reported |
| NFPA Health: | Not reported |
| NFPA Flammability: | Not reported |
| NFPA Reactivity: | Not reported |
| NFPA Special Notice: | Not reported |
| Hazards: | Not reported |
| Number of Days Onsite: | Not reported |
| Year: | Not reported |

**KLAMATH COUNTY SCHOOL DISTRICT (Continued)** **S111251233**

Chemical:

| | |
|---|---|
| Chemical Name: | PROPANE |
| Physical Description: | GAS |
| Case Number: | 74986 |
| Facility Id: | 090392 |
| Physical State Of The Substance: | 3 |
| Average Amount Possessed During The Year Code: | 11 |
| Maximum Amount Possessed During The Year Code: | 20 |
| Applicable Unit Of Measure Code: | 2 |
| Description Of The Unit Of Measure: | GALLONS |
| Type Code: | L |
| Description: | CYLINDER |
| Type Code: | Not reported |
| Temperature Description: | Not reported |
| Pressure of Code: | 2 |
| Pressure Description: | GREATER THAN NORMAL PRESSURE |
| Pressure of Code: | Not reported |
| Pressure Description: | Not reported |
| Temperature Description: | NORMAL TEMPERATURE |
| Temperature of The Hazardous Substance Code: | 4 |
| Temperature Description: | Not reported |
| Temperature of The Hazardous Substance Code: | Not reported |
| Days Hazardous Substance On Site During Year: | 365 |
| Is The Substance Protected A Trade Secret: | False |
| Description Of The Max Qnty Code: | 1,000-4,999 |
| Description Of The Avg Qnty Code: | 500-999 |
| Most Hazardous Ingridient: | PROPANE |
| United Nations/north America 4 Digit Class Number: | 1075 |
| Hazard Rank: | 2 |
| EHS Ingredient: | NONE LISTED ON SDS |
| Substance Pure: | True |
| Substance Mix: | False |
| First Hazardous Class Code For Chemical: | Flammable Gas |
| Second Hazardous Class Code For Chemical: | Acute Health Hazard |
| Third Hazardous Class Code For Chemical: | Not reported |
| Hazard Class 1 Of The Chemical: | 2.1 |
| Hazard Class 2 Of The Chemical: | 6.3 |
| Hazard Class 3 Of The Chemical: | Not reported |

Additional Chemical:

| | |
|---|---|
| Chemical Is A Toxic 313 Chemical: | N |
| EPA Pesticide Registration Number: | Not reported |
| Contains 112R: | N |
| Contains EHS: | N |
| Fertilizer: | N |
| Pesticide: | N |
| Contains 313: | N |

**D19** **WAMPLER LOGGING** **ECSI** **S108390964**
**NNW** **212 N KLAMATH AVE.** **N/A**
**< 1/8** **CHILOQUIN, OR 97624**
**0.105 mi.**
**555 ft.** **Site 1 of 2 in cluster D**

**Relative:**
**Lower**

**Actual:**
**4185 ft.**

ECSI:

| | |
|---|---|
| Name: | WAMPLER LOGGING |
| Address: | 212 N KLAMATH AVE. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 4727 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 97366 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 40.10 / -121 51 51.50 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | DB |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 12/31/2012 |
| Created Date: | 11/06/2006 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | Suspect |
| Decode For Legislative: | Not reported |

Narrative:

| | |
|---|---|
| NARR ID: | 5750627 |
| NARR Code: | Contamination |
| Created By: | DCROUSE |
| Created Date: | 07/08/2008 |
| Updated By: | DCROUSE |
| Updated Date: | 07/08/2008 |
| Decode for NarcdID: | Contamination |
| NARR Comments: | (7/8/08 DMC/SAS) Site referred to ER/SAS by ER/HW. PRP has performed limited removal action. |

| | |
|---|---|
| NARR ID: | 5750628 |
| NARR Code: | Data Sources |
| Created By: | DCROUSE |
| Created Date: | 07/08/2008 |
| Updated By: | DCROUSE |
| Updated Date: | 07/08/2008 |
| Decode for NarcdID: | Data Sources |
| NARR Comments: | 1. DMC/SAS drivebys (6/18/20). |

**WAMPLER LOGGING (Continued)** **S108390964**

NARR ID: 5750629
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 07/08/2008
Updated By: DCROUSE
Updated Date: 07/08/2008
Decode for NarcdID: Remedial Action
NARR Comments: (7/8/08 DMC/SAS) Site screening recommended.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 11/06/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/06/2006
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: 9425
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/06/2006
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: 9449
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/05/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/05/2012

**WAMPLER LOGGING (Continued)** **S108390964**

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: 135433
Operation Status: Active
Common Name: Wampler Logging
Yrs of Operation: Not reported
Comments: Active logging facility.
Updated Date: 07/08/2008
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 198885
SIC Code: 2411
Created By: DCROUSE
Created Date: 07/08/2008

---

**D20** **WAMPLER LOGGING** **RCRA NonGen / NLR** **1015748817**
**NNW** **212 KLAMATH AVENUE** **ORSTATE06678**
**< 1/8** **CHILOQUIN, OR 97624**
**0.105 mi.**
**555 ft.** **Site 2 of 2 in cluster D**

**Relative:** **Lower**
**Actual:** **4185 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20061120
Handler Name: WAMPLER LOGGING
Handler Address: 212 KLAMATH AVENUE
Handler City,State,Zip: CHILOQUIN, OR 97624
EPA ID: ORSTATE06678
Contact Name: Not reported
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: Not reported
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 10
Land Type: Other
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: Not reported
Mailing City,State,Zip: Not reported
Owner Name: Not reported
Owner Type: Not reported
Operator Name: Not reported
Operator Type: Not reported
Short-Term Generator Activity: No
Importer Activity: No

**WAMPLER LOGGING (Continued)** **1015748817**

| | |
|---|---|
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20140602 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20061120 |

**WAMPLER LOGGING (Continued)** **1015748817**

Handler Name: WAMPLER LOGGING
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20060512
Actual Return to Compliance Date: 20060801
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060712
Enforcement Identifier: 101
Date of Enforcement Action: 20060608
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State

**WAMPLER LOGGING (Continued)** **1015748817**

| | |
|---|---|
| Violation Short Description: | Used Oil - Generators |
| Date Violation was Determined: | 20060512 |
| Actual Return to Compliance Date: | 20060801 |
| Return to Compliance Qualifier: | Documented |
| Violation Responsible Agency: | State |
| Scheduled Compliance Date: | 20060717 |
| Enforcement Identifier: | 101 |
| Date of Enforcement Action: | 20060608 |
| Enforcement Responsible Agency: | State |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | No |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | NOTICE OF NONCOMPLIANCE |
| Enforcement Responsible Person: | ORJRI |
| Enforcement Responsible Sub-Organization: | ER |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

| | |
|---|---|
| Found Violation: | Yes |
| Agency Which Determined Violation: | State |
| Violation Short Description: | State Statute or Regulation |
| Date Violation was Determined: | 20060512 |
| Actual Return to Compliance Date: | 20060801 |
| Return to Compliance Qualifier: | Documented |
| Violation Responsible Agency: | State |
| Scheduled Compliance Date: | 20060717 |
| Enforcement Identifier: | 101 |
| Date of Enforcement Action: | 20060608 |
| Enforcement Responsible Agency: | State |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | No |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |

**WAMPLER LOGGING (Continued)** **1015748817**

| | |
|---|---|
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | NOTICE OF NONCOMPLIANCE |
| Enforcement Responsible Person: | ORJRI |
| Enforcement Responsible Sub-Organization: | ER |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

| | |
|---|---|
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |
| Appeal Initiated Date: | Not reported |
| Appeal Resolution Date: | Not reported |
| Disposition Status Date: | Not reported |
| Disposition Status: | Not reported |
| Disposition Status Description: | Not reported |
| Consent/Final Order Sequence Number: | Not reported |
| Consent/Final Order Respondent Name: | Not reported |
| Consent/Final Order Lead Agency: | Not reported |
| Enforcement Type: | Not reported |
| Enforcement Responsible Person: | Not reported |
| Enforcement Responsible Sub-Organization: | Not reported |
| SEP Sequence Number: | Not reported |
| SEP Expenditure Amount: | Not reported |
| SEP Scheduled Completion Date: | Not reported |
| SEP Actual Date: | Not reported |
| SEP Defaulted Date: | Not reported |
| SEP Type: | Not reported |
| SEP Type Description: | Not reported |
| Proposed Amount: | Not reported |
| Final Monetary Amount: | Not reported |
| Paid Amount: | Not reported |
| Final Count: | Not reported |
| Final Amount: | Not reported |

Evaluation Action Summary:

| | |
|---|---|
| Evaluation Date: | 20060512 |

**WAMPLER LOGGING (Continued)** **1015748817**

| | |
|---|---|
| Evaluation Responsible Agency: | State |
| Found Violation: | Yes |
| Evaluation Type Description: | FOCUSED COMPLIANCE INSPECTION |
| Evaluation Responsible Person Identifier: | ORJRI |
| Evaluation Responsible Sub-Organization: | ER |
| Actual Return to Compliance Date: | 20060801 |
| Scheduled Compliance Date: | 20060712 |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

| | |
|---|---|
| Evaluation Date: | 20060512 |
| Evaluation Responsible Agency: | State |
| Found Violation: | Yes |
| Evaluation Type Description: | FOCUSED COMPLIANCE INSPECTION |
| Evaluation Responsible Person Identifier: | ORJRI |
| Evaluation Responsible Sub-Organization: | ER |
| Actual Return to Compliance Date: | 20060801 |
| Scheduled Compliance Date: | 20060717 |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

| | |
|---|---|
| Evaluation Date: | 20060512 |
| Evaluation Responsible Agency: | State |
| Found Violation: | Yes |
| Evaluation Type Description: | FOCUSED COMPLIANCE INSPECTION |
| Evaluation Responsible Person Identifier: | ORJRI |
| Evaluation Responsible Sub-Organization: | ER |
| Actual Return to Compliance Date: | 20060801 |
| Scheduled Compliance Date: | 20060717 |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

| | |
|---|---|
| Evaluation Date: | 20061018 |
| Evaluation Responsible Agency: | State |
| Found Violation: | No |
| Evaluation Type Description: | FOCUSED COMPLIANCE INSPECTION |
| Evaluation Responsible Person Identifier: | ORJRI |
| Evaluation Responsible Sub-Organization: | ER |
| Actual Return to Compliance Date: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Date of Request: | Not reported |
| Date Response Received: | Not reported |
| Request Agency: | Not reported |
| Former Citation: | Not reported |

**21**
**WNW**
**1/8-1/4**
**0.146 mi.**
**769 ft.**

**CHOCKTOOT ST. PETROLEUM RELEASES**
**CHOCKTOOT ST. (EAST OF BRIDGE)**
**CHILOQUIN, OR 97624**

**ECSI** **S110638455**
**N/A**

**Relative:**
**Lower**

**Actual:**
**4171 ft.**

ECSI:

| | |
|---|---|
| Name: | CHOCKTOOT ST. PETROLEUM RELEASES |
| Address: | CHOCKTOOT ST. (EAST OF BRIDGE) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 5407 |
| Brown ID: | 0 |
| Study Area: | True |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 117330 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 39.40 / -121 51 55.80 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | Not reported |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | KROBERT |
| Update Date: | 07/26/2012 |
| Created Date: | 08/18/2010 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | Suspect |
| Decode For Legislative: | Not reported |

Alias Name: LUST Chiloquin Shell; May-Slade Bulk plants

Narrative:

| | |
|---|---|
| NARR ID: | 5752408 |
| NARR Code: | Contamination |
| Created By: | DCROUSE |
| Created Date: | 08/18/2010 |
| Updated By: | DCROUSE |
| Updated Date: | 08/18/2010 |
| Decode for NarcdID: | Contamination |

NARR Comments: (8/18/10 DMC/SAS) Oregon Department of Transporation (ODOT) discovered petroleum contamination while sampling for a street project.

| | |
|---|---|
| NARR ID: | 5752409 |
| NARR Code: | Data Sources |
| Created By: | DCROUSE |
| Created Date: | 08/18/2010 |
| Updated By: | DCROUSE |
| Updated Date: | 08/18/2010 |

**CHOCKTOOT ST. PETROLEUM RELEASES (Continued)** **S110638455**

Decode for NarcdID: Data Sources
NARR Comments: 1. ODOT referral (8/10).

NARR ID: 5752410
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/18/2010
Updated By: DCROUSE
Updated Date: 08/18/2010
Decode for NarcdID: Remedial Action
NARR Comments: (8/18/10 DMC/SAS) Site discovery in progress.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 08/18/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/18/2010
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: 08/01/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/26/2012
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: 135674
Operation Status: Active
Common Name: Chocktoot ST Petroleum Releases
Yrs of Operation: Not reported
Comments: Petroleum from unknown sources.
Updated Date: 08/18/2010
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 199103
SIC Code: 5541
Created By: DCROUSE
Created Date: 08/18/2010

**22**
**WNW**
**1/8-1/4**
**0.218 mi.**
**1150 ft.**

**CLYDE'S FAIRWAY MARKET**
**323 CHOCKTOOT ST.**
**CHILOQUIN, OR 97624**

**ECSI** **S106236725**
**N/A**

**Relative:**
**Lower**

**Actual:**
**4190 ft.**

ECSI:

| | |
|---|---|
| Name: | CLYDE'S FAIRWAY MARKET |
| Address: | 323 CHOCKTOOT ST. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 4078 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 82377 |
| Further Action: | 259 |
| Lat/Long (dms): | 42 34 41.90 / -121 52 .80 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | CA |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 08/12/2014 |
| Created Date: | 03/15/2004 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Medium-Low |
| Decode For Investstat: | Suspect |
| Decode For Legislative: | Not reported |

Narrative:

| | |
|---|---|
| NARR ID: | 5753306 |
| NARR Code: | Contamination |
| Created By: | DCROUSE |
| Created Date: | 06/27/2011 |
| Updated By: | DCROUSE |
| Updated Date: | 06/27/2011 |
| Decode for NarcdID: | Contamination |
| NARR Comments: | (6/27/11 DMC/SAS) Site is a former service station. |

Administrative Action:

| | |
|---|---|
| Action ID: | 9508 |
| Region: | Eastern Region |
| Complete Date: | 08/12/2014 |
| Rank Value: | Not reported |
| Cleanup Flag: | False |
| Created Date: | 08/12/2014 |
| Decode for AgencyID: | Department of Environmental Quality |
| Decode for RegionID: | Eastern Region |

**CLYDE'S FAIRWAY MARKET (Continued)** **S106236725**

Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Medium-Low
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 03/15/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/15/2004
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

Operations:
Operation Id: 134886
Operation Status: Active
Common Name: Clyde's Fairway Market
Yrs of Operation: Not reported
Comments: market
Updated Date: 03/15/2004
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 198332
SIC Code: 5411
Created By: DCROUSE
Created Date: 03/15/2004

---

**23** **CHILOQUIN FOREST PRODUCTS** **SEMS-ARCHIVE** **1010082210**
**SSE** **W BLOCKLINGER ST.,** **ORN001002686**
**1/4-1/2** **CHILCOQUIN, OR 97624**
**0.316 mi.**
**1666 ft.**

**Relative:**
**Higher**

**Actual:**
**4218 ft.**

SEMS Archive:
Site ID: 1002686
EPA ID: ORN001002686
Name: CHILOQUIN FOREST PRODUCTS
Address: W BLOCKLINGER ST.,
Address 2: Not reported
City,State,Zip: CHILCOQUIN, OR 97624
Cong District: Not reported
FIPS Code: 41035
FF: N
NPL: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

SEMS Archive Detail:
Region: 10
Site ID: 1002686
EPA ID: ORN001002686
Site Name: CHILOQUIN FOREST PRODUCTS
NPL: N

**CHILOQUIN FOREST PRODUCTS (Continued)** **1010082210**

| | |
|---|---|
| FF: | N |
| OU: | 00 |
| Action Code: | VS |
| Action Name: | ARCH SITE |
| SEQ: | 1 |
| Start Date: | Not reported |
| Finish Date: | 2011-02-15 05:00:00 |
| Qual: | Not reported |
| Current Action Lead: | EPA Perf In-Hse |
| | |
| Region: | 10 |
| Site ID: | 1002686 |
| EPA ID: | ORN001002686 |
| Site Name: | CHILOQUIN FOREST PRODUCTS |
| NPL: | N |
| FF: | N |
| OU: | 00 |
| Action Code: | RV |
| Action Name: | RMVL |
| SEQ: | 1 |
| Start Date: | 2007-07-08 04:00:00 |
| Finish Date: | 2007-07-30 04:00:00 |
| Qual: | C |
| Current Action Lead: | EPA Perf |

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**24**
**WNW**
**1/4-1/2**
**0.382 mi.**
**2015 ft.**

**ODOT - CHILOQUIN UIC** **ECSI** **S108664244**
**46331 CHOCKTOOT ST** **N/A**
**CHILOQUIN, OR 97624**

**Relative:**
**Higher**

**Actual:**
**4207 ft.**

ECSI:

| | |
|---|---|
| Name: | ODOT - CHILOQUIN UIC |
| Address: | 46331 CHOCKTOOT ST |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 4821 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | Suspect |
| FACA ID: | 102583 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 45.10 / -121 52 10.60 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | CA |
| Tax Lots: | Not reported |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |

**ODOT - CHILOQUIN UIC (Continued)** **S108664244**

Updated By: DCROUSE
Update Date: 04/08/2008
Created Date: 05/23/2007
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Narrative:
NARR ID: 5749318
NARR Code: Contamination
Created By: DCROUSE
Created Date: 05/23/2007
Updated By: KROBERT
Updated Date: 05/31/2007
Decode for NarcdID: Contamination
NARR Comments: (5/23/07 DMC/SAS) Report submitted to a dry well removal. (5/31/07 KJR/SAS) One UIC (drywell) was connected to a grease pit floor drain located in the northwest side of the maintenance building. The UIC is believed to have been installed in 1983. Discharge from the fllor drain traveled through oil interceptor prior to discharge in drywell. Drywell extended about 5 feet bgs. Field evidence of contamination. Dry well was overexcavated to a total depth of 11.5 feet. Excavation limited due to building location. About 65 tons of contaminated soil removed and transported to Knott Landfill in Bend. Diesel and heavy oil were detected in confirmation soil samples at levels ranging from 532 mg/kg to 7,040 mg/kg and 1,670 mg/kg to 26,300 mg/kg, respectively.

NARR ID: 5749319
NARR Code: Data Sources
Created By: DCROUSE
Created Date: 05/23/2007
Updated By: DCROUSE
Updated Date: 05/23/2007
Decode for NarcdID: Data Sources
NARR Comments: 1. UIC Decommissioning Report, ODOT Chiloquin Maintenance Station by AMER Earth & Environmental (2/20/07).

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 05/23/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/23/2007
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: 05/23/2007

**ODOT - CHILOQUIN UIC (Continued)** **S108664244**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/23/2007
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: 135287
Operation Status: Inactive
Common Name: ODOT - Chiloquin UIC
Yrs of Operation: Not reported
Comments: Dry well removal at highway maintenance station.
Updated Date: 05/23/2007
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 198716
SIC Code: 1611
Created By: DCROUSE
Created Date: 05/23/2007

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**25 SSW 1/4-1/2 0.480 mi. 2535 ft.** **CHILOQUIN FOREST PRODUCTS**
**BLOCKLINGER ST (END OF)**
**CHILOQUIN, OR 97624**

**ECSI S105613944**
**CRL N/A**
**ENG CONTROLS**
**INST CONTROL**
**BROWNFIELDS**

**Relative: Lower**
**Actual: 4186 ft.**

ECSI:
Name: CHILOQUIN FOREST PRODUCTS
Address: BLOCKLINGER ST (END OF)
City,State,Zip: CHILOQUIN, OR 97624
State ID Number: 1213
Brown ID: Brownfield Site - Assistance From Other Public Agencies
Study Area: False
Region ID: 1
Legislatve ID: 838
Investigation: Listed on the CRL/Inventory
FACA ID: 5977
Further Action: 0
Lat/Long (dms): 42 34 13.09 / -121 52 4.83
County Code: 18.00
Score Value: Not reported
Cerclis ID: 001002686
Township Coord.: 35.00
Township Zone: S
Range Coord: 7.00
Range Zone: E
Section Coord: 3
Qtr Section: AB
Tax Lots: Not reported
Size: 26.34 acres
NPL: False
Orphan: True
Updated By: MFRISTE

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Update Date: 08/01/2018
Created Date: 07/01/1992
Decode For RegionID: Eastern Region
Decode For BrownID: Brownfield Site - Assistance from Other Public Agencies
Decode For Furtheract: Not reported
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Orphan Site Account
Alias Name: Chiloquin Mill Site Restoration Project
Alias Name: Chiloquin Lumber & Box Co.

Hazardous Release:
Substance ID.: 122012
Haz Release ID: 380744
Qty Released: unknown
Date Released: unknown
Update Date: 01/23/1997
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 302823
Release Code: Media Contamination Footnote
Release Comments: Source Areas = chemical storage shed, repair shop, former kiln area
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 342611
Feature Id: Not reported
Hazard Release Id: 380744
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/29/1996
End Date: 05/29/1996
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 310000 ppm (up to)
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Soil

Substance ID.: 122015
Haz Release ID: 383351
Qty Released: unknown
Date Released: unknown
Update Date: 01/07/1992

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Update By: Not reported
Substance Code: ECD282
Substance Name: OIL - WASTE
Substance Abbrev.: Not reported
Substance Category ID: 8541
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8541
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 302824
Release Code: Media Contamination Footnote
Release Comments: oil/diesel observed floating on GW in borehole NE of repair shop
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 342610
Feature Id: Not reported
Hazard Release Id: 383351
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: 05/29/1996
End Date: 05/29/1996
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1<quot> (< LNAPL)
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5732193
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 11/14/2007
Decode for NarcdID: Contamination
NARR Comments: (11/4/92 DJH/SAS) Numerous drums of solvents and various new and used petroleum-based liquids were left on-site. Many were open-topped, damaged, and stored on bare soil. Significant areas of stained soils were also present at the site. In June 1992, DEQ directed an emergency removal of some contaminated soil, and drummed and containerized liquids. Some contamination (mainly in surface soil) remains at the site. (4/30/03 KJR/SAS) A Targeted Brownfield Assessment (TBA) performed in September 2002 confirmed petroleum contamination at the repair shop and chemical shed as well as west of the kiln building. Pentachlorophenol (PCP) was also detected at high concentrations in one location. Iron and manganese, related to presence of large quantity of wood waste, were also detected in elevated levels in soil and groundwater. A supplemental TBA performed

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

in February 2003 delineated an area of PCP-contaminated soil, and confirmed that iron and manganese were infrequently seeping into the Sprague River.

NARR ID: 5732194
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/11/2003
Decode for NarcdID: Data Sources
NARR Comments: 1) Rittenhouse-Zeman & Associates Level I Environmental Assessment, 9/91. 2) DEQ Preliminary Assessment 10/92. 3) DEQ Removal Assessment 1/97. 4) Laboratory data. 5) DEQ Targeted Brownfields Assessment reports, January 2003 and May 2003.

NARR ID: 5732195
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 12/05/2007
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Petroleum products including cutting oils, lube oils and greases, gasoline, and diesel; methanol; pentachlorophenol (PCP); iron and manganese, dioxin

NARR ID: 5732196
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: Located on the southwestern edge of Chiloquin; additional T/R/S data: 3S/7E/3AD.

NARR ID: 5732197
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Leakage and overflow of drums and other containers; probably some contamination due to minor dumping and poor waste-handling practices. Time of release unknown.

NARR ID: 5732198
NARR Code: Site Ownership
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/11/2003
Decode for NarcdID: Site Ownership
NARR Comments: Klamath County completed the foreclosure process and is the site's current owner. DEQ has placed a lien on the property to recover its

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

investigation and cleanup costs in the early 1990s.

NARR ID: 5732199
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Access to site not restricted; the site is located next to Chiloquin Elementary School. Foot traffic through the site is common.

NARR ID: 5732200
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 10/17/2011
Decode for NarcdID: Remedial Action
NARR Comments: (1/23/97 KAM/SRS) In May 1996, DEQ conducted a Removal Assess. to determine if the site posed a threat to human health or the environment. DEQ completed 15 soil borings and collected four samples of visibly-stained surface soils, two downstream sediment samples, and five asbestos samples. Three areas of localized contamination were identified: the repair shop area, chemical storage shed area, and the east side of the kiln building. Surface soils in all three areas had visible petroleum contamination, ranging from 130,000 to 310,000 mg/kg TPH. TPH concentrations decreased significantly with depth. A thin layer of oil/diesel product was observed floating on the gw in a borehole northeast of the repair shop. Asbestos fibers were not detected in any of the samples. Site Response has determined that this site is a low priority for further cleanup; however, a number of public safety hazards (abandoned buildings, open pits) exist at the site. (4/30/03 KJR/SAS) All structures except boiler house were removed in 1999 by the county. Following DEQ's phased TBA process, further action is needed at the site, primarily associated with soil removal in specific portions of the site, and removal of landfilled (acidic) wood waste that are liberating ecologically harmful metals into the Sprague River. This further action is a medium priority. (12/10/04 KJR/VCP) The property owner applied for and was awarded an EPA Brownfield Cleanup Grant in June 2004. Four areas of concern have been identified that require cleanup: asbestos abatement and demolition of boiler house, removal of penta- and petroleum-contaminated soil, and removal of wood waste from contact with gw and the Sprague River. An ABCA (equivalent to an FS) has been prepared and is available in draft for public comment. DEQ prepared a staff report accepting proposed remedial actions upon completion of a public comment period. Any public comments will be addressed prior to final acceptance of a remedy. The public comment period ends on December 31, 2004. (4/15/05 KJR/VCP) ROD issued on 1/5/05. Boiler House removal, including asbestos and lead paint abatement as well as removal of penta- and petroleum-contaminated soil, was performed the week of April 11, 2005. (2/14/06 KJR/VCP) Cleanup activities performed to date: abatement of asbestos containing material prior to the demolition of the boiler house, removal of about 300 tons of PCS, and excavation of about 530 tons of penta contaminated soil with minor portion of this soil containing dioxin contaminated soil.

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Although dioxin was identified during previous investigations, the extent and degree were determined to be very limited. However, confirmation samples collected after the excavation of the limited dioxin area came back with very high concentrations of dioxins. Several sampling events were performed and elevated levels of dioxins are present and the full extent has not yet been delineated. The site was declared an Orphan in order to perform off-site dioxin sampling. (9/13/07 KJR/VCP) Based on the emergence of dioxins and furans (dioxins) as the primary COPC remaining at the site, an addendum to the ABCA was prepared in September 2006 to recommend a remedial action for the dioxins located on-site. Reasonably likely future site uses include housing, recreation, and commercial development. The most likely potential exposure pathways would be direct contact with contaminated soils. RAOs were defined to address the unacceptable risks posed by dioxins in soils on the site and include: 1) prevent direct human contact to dioxin contaminated soils that pose an unacceptable risk; 2) prevent migration of dioxin contaminated soils from the site associated with wind and surface water erosion; 3) remediate hot spots of dioxin contaminated soils to the extent feasible; 4) implementing only those alternatives that allow for redevelopment of the property to occur. The cleanup goal for dioxin contaminated soil is 3.9 ng/kg, expressed as a 2,3,7,8-TCDD TEQ concentration. This cleanup goal is the RBC for residential soil and represents a 1 x 10-6 excess cancer risk level for human exposure to individual carcinogens (dioxin congeners). A cleanup goal of 39 ng/kg as 2,3,7,8-TCDD TEQ represents a 1 x 10-5 excess cancer risk level for human residential exposure to multiple congeners. For future commercial workers at the site, the cleanup goal is 16 ng/kg. For future construction workers the cleanup goal is 130 ng/kg. These cleanup goals are based on a 1 x 10-6 excess cancer risk level for human exposure to individual congeners. In November 2006, DEQ selected the cleanup alternative recommended for dioxin contaminated soils at the site, a protective cover and deed restriction The ROD amendment was approved by the Director on November 7, 2006. Due to lack of funding to implement the selected remedial action, DEQ requested EPA implement the Remedial Action at the site in January 2007. EPA approved the action and completed the removal action in July 2007. Their work included removing vegetation, breaking up asphalt pavement and concrete foundations, spreading a minimum of one foot of soil over approximately 16.1 acres of the site, spreading wood waste along the northern and western portions of the cap, and installing a gate and rock barrier to limit site access. Soil was obtained from an on-site stockpile from a ODOT road cut (after screening to remove boulders) and imported from a local source. A HHRA was completed to evaluate potential risks to people from exposure to surface soil with dioxins, that may have originated from the mill site, at off-site properties east and northeast of the former mill site. Specially, potential exposures would involve direct contact with dioxin in surface soil by residents and school children. Additional samples were collected and analyzed for dioxins from the northeast residential area and the schoolyards in February 2007 to supplement existing data to better calculate risks in particular areas and to further delineate the extent of dioxin contamination. The dioxin data were segregated into the three areas (Schoolyards, Northeast City, and East City) for evaluation based on use and location relative to the site. Potential human receptors to dioxin contamination were identified as school children in the Schoolyards,

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

and residents in the Northeast City and East City. School employees, construction, and excavation workers were also identified; risks to these workers were assessed on a qualitative basis. The dioxin data for each of these three areas was evaluated in accordance with standard risk assessment protocols. Individual dioxin and furan compounds (i.e., congeners) were screened against RBC, adjusted as appropriate by toxicity equivalence factors, to identify COPCs. EPCs were calculated for identified COPCs for both RME and CTE exposure scenarios. Individual and cumulative risk estimates were then calculated and compared to the DEQ s acceptable risk levels of 1 x 10-6 and 1 x 10-5 for individual and multiple carcinogens, respectively. Risk estimates indicated that penta-chlorinated dibenzo-p-dioxin (PeCDD) posed an unacceptable risk (2 x 10-6) at the Schoolyard under an RME scenario; however, further data evaluation suggested that PeCDD was not related to site impacts, but possibly to use of herbicide application (e.g., 2,4-D). PeCDD also posed a slight risk to school employees. The cumulative RME excess lifetime cancer risk to residents in the Northeast City (2 x 10-5) also exceeded acceptable risk levels. On an individual basis, five congeners exceeded acceptable risks (up to 7 x 10-5). Review of the data indicated that one sample, 353AB-5, with relatively high dioxin concentrations may have resulted in these unacceptable risks. Risks to other human receptors are considered acceptable. The removal of sample 353AB-5 (through a remedial action) from the Northeast City data set resulted in acceptable residual risk levels on an individual and cumulative basis. The remedial action related to sample 353AB-5 is scheduled to be completed in September 2007. Based on the above results, further risk evaluation was performed to refine the understanding of potential unacceptable risks. At the Schoolyard, the percentage of PeCDD was statistically different than surrounding areas, suggesting another source such as herbicide application. Removal of this herbicide contribution yielded an acceptable risk level for PeCDD (5 x 10-7) to school children and employees. (11/13/07 KJR/ORP) Approximately 30 tons of dioxin contaminated soil was removed from the vicinity of sample 353AB-5 in September 2007. The area was defined through previous sampling events and confirmation samples were not collected. In addition to the removal of dioxin contaminated soil, approximately 500 tons of solid waste (from illegal dumping) stockpiled during the construction of the soil cap were removed and either recycled or transported to a solid waste landfill for disposal. During the 2007 Remedial Action, the majority of the wood waste located on the log deck was spread out in a thin layer (<3 inches) onto the soil cap and worked into the cap with heavy equipment to prevent erosion of the cap. The wood waste remains along the bank of Sprague River & may extend between 10 feet to 15 feet. Some wood waste remains on the log deck area near the river. The wood waste along the Sprague River is primarily located above the river s high water mark. The clean up of wood waste and restoration of the stream bank will be tracked under ECSI # 4885. (11/28/07 KJR/VCP) E&ES has been signed by County and was recorded on 11-6-07. (12/4/07 KJR/VCP) Public comment period ended. No comments received. CNFA issued on 12/4/07; this letter is available online for review and download. (10/17/11 KJR/SAS) Annual inspections of cap have been performed in 2008, 2009, 2010, 2011

NARR ID: 5749865
NARR Code: 1922

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Created By: KROBERT
Created Date: 11/14/2007
Updated By: GWISTAR
Updated Date: 12/07/2007
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [Dec. 2007] Based on site investigations and remedial actions performed to date, DEQ has made a Conditional No Further Action determination. The conditions are described in the Easement & Equitable Servitude document posted on this page.

Site Control:
Site Control #: 484
Control Number: 3
Begin Date: 11/06/2007
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Katie Robertson
Last Reviewed Date: 11/06/2007
Last Update By: GWISTAR
Last Updated Date: 12/29/2016
Site Comment: Owner shall not extract through wells or by other means or use the groundwater from the shallow aquifer at the Property for consumption or other beneficial use, as long as the hazardous substance concentrations exceed the acceptable risk level for such use Except in accordance with the Continuing Obligations Plan, Owner shall not conduct operations on the Property or use the Property in any way that will or likely will penetrate the soil cap or jeopardize the soil cap's protective function as an engineering control that prevents exposure to contaminated soil, including without limitation any excavation, drilling, scraping, or erosion. The non-engineeed cap is on annual inspection cycle, while the E&ES itself is on a 5 year cycle.

Site Control #: 485
Control Number: 37
Begin Date: 08/06/2007
End Date: Not reported
Frequency Of Review: 12
Last Reviewed By: Katie Robertson
Last Reviewed Date: 09/06/2008
Last Update By: KROBERT
Last Updated Date: 10/02/2008
Site Comment: one foot of soil over approximately 16.1 acres of the site Cap inspected in Sept. 2008. no repairs needed

Permit:
Permit Agency: DEQ
Permit Number: 1213
Permit Type: WQ GEN12T
Comments: Not reported

Permit Agency: DEQ
Permit Number: 1213
Permit Type: WQ GEN12T
Comments: Not reported

Permit Agency: DEQ
Permit Number: 1213

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Permit Type: WQ GEN12T
Comments: Not reported

Administrative Action:
Action ID: 9494
Region: Eastern Region
Complete Date: 01/05/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/15/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Eastern Region
Complete Date: 10/31/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/15/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9453
Region: Eastern Region
Complete Date: 12/04/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/10/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: ORPHAN SITE
Further Action: 0
Comments: Not reported

Action ID: 9509
Region: 0
Complete Date: 08/15/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/14/2007
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Removal Action
Further Action: 0

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Comments: Not reported

Action ID: 9494
Region: Eastern Region
Complete Date: 11/07/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/14/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9486
Region: Eastern Region
Complete Date: 07/13/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/14/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9429
Region: Eastern Region
Complete Date: 09/28/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/14/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9434
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/28/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: 0
Comments: Not reported

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Action ID: 9422
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/28/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9411
Region: Eastern Region
Complete Date: 12/04/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/04/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Headquarters
Complete Date: 06/15/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9425

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Region: Headquarters
Complete Date: 05/25/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Headquarters
Complete Date: 11/04/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 05/27/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Eastern Region
Complete Date: 03/09/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Headquarters

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Complete Date: 10/28/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9503
Region: Headquarters
Complete Date: 10/29/1992
Rank Value: 0
Cleanup Flag: True
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation/Feasibility Study recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9466
Region: Eastern Region
Complete Date: 09/06/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/08/2009
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: Not reported

Action ID: 9501
Region: Eastern Region
Complete Date: 03/10/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Action recommended (RA)
Further Action: Medium
Comments: Not reported

Action ID: 9517
Region: Headquarters
Complete Date: 05/01/1996

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: SRS Waiting List
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 11/05/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Headquarters
Complete Date: 11/05/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 01/20/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Headquarters
Complete Date: 01/20/1993
Rank Value: 0

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 03/24/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9489
Region: Headquarters
Complete Date: 03/24/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing on Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 04/15/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 04/15/1993
Rank Value: 0
Cleanup Flag: False

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 10/29/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9518
Region: Eastern Region
Complete Date: 05/27/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/30/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: TARGETED BROWNFIELD ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9501
Region: Eastern Region
Complete Date: 05/27/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/27/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Action recommended (RA)
Further Action: Medium
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 09/22/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2004

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

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: 9429
Region: Eastern Region
Complete Date: 01/03/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/10/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: 0
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 05/26/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 11/05/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9492
Region: Headquarters
Complete Date: 01/08/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9504
Region: Headquarters
Complete Date: 01/23/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Removal Action Recommended (RM)
Further Action: Low
Comments: Not reported

Action ID: 9448
Region: Headquarters
Complete Date: 03/23/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Review for final listing
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132523
Operation Status: Inactive
Common Name: Chiloquin Forest Products
Yrs of Operation: 1918 to 8/91
Comments: Lumber mill.
Updated Date: 02/20/2002
Updated By: kjr
Decode for OpstatID: Inactive
Operations SIC Id: 195647
SIC Code: 2421
Created By: Not reported
Created Date: 12/17/2002

CRL:
Name: CHILOQUIN FOREST PRODUCTS
Address: BLOCKLINGER ST (END OF)
City,State,Zip: CHILOQUIN, OR 97624
Facility ID: 1213
Location ID: 5977
Status Code: LIS
Facility Status: No Further Action (Conditional)

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

Lat/Long: 42.5703 / -121.868

Enginering Control:

| | |
|---|---|
| Name: | CHILOQUIN FOREST PRODUCTS |
| Address: | BLOCKLINGER ST (END OF) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Site Control Sequence #: | 485 |
| Site Id: | 1213 |
| Control Sequence #: | 37 |
| Begin Date: | 08/06/2007 |
| End Date: | Not reported |
| Frequency Of Review: | 12 |
| Last Reviewed By: | Katie Robertson |
| Last Review Date: | 09/06/2008 |
| Last Updated By: | KROBERT |
| Last Updated Date: | 10/02/2008 |
| Group Sequence #: | 9 |
| Control Code: | CPNE |
| Control Description: | Cap, non-engineered |
| FK Type Code: | 2 |
| Group Code: | SB |
| Group Description: | Surface Barriers |
| Type Code: | E |
| Type Description: | Engineering |
| Comments: | one foot of soil over approximately 16.1 acres of the site Cap inspected in Sept. 2008. no repairs needed |

Institutional Control:

| | |
|---|---|
| Name: | CHILOQUIN FOREST PRODUCTS |
| Address: | BLOCKLINGER ST (END OF) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Site Control Sequence #: | 484 |
| Site Id: | 1213 |
| Control Sequence #: | 3 |
| Begin Date: | 11/06/2007 |
| End Date: | Not reported |
| Frequency Of Review: | 60 |
| Last Reviewed By: | Katie Robertson |
| Last Review Date: | 11/06/2007 |
| Last Updated By: | GWISTAR |
| Last Updated Date: | 12/29/2016 |
| Group Sequence #: | 2 |
| Control Code: | EES |
| Control Description: | Easement Equitable Servitude |
| FK Type Code: | 1 |
| Group Code: | PR |
| Group Description: | Proprietary |
| Type Code: | I |
| Type Description: | Institutional |
| Comments: | Owner shall not extract through wells or by other means or use the groundwater from the shallow aquifer at the Property for consumption or other beneficial use, as long as the hazardous substance concentrations exceed the acceptable risk level for such use Except in accordance with the Continuing Obligations Plan, Owner shall not conduct operations on the Property or use the Property in any way that will or likely will penetrate the soil cap or jeopardize the soil |

**CHILOQUIN FOREST PRODUCTS (Continued)** **S105613944**

cap's protective function as an engineering control that prevents exposure to contaminated soil, including without limitation any excavation, drilling, scraping, or erosion. The non-engineeed cap is on annual inspection cycle, while the E&ES itself is on a 5 year cycle.

OR BROWNFIELDS:

| | |
|---|---|
| Name: | CHILOQUIN FOREST PRODUCTS |
| Address: | BLOCKLINGER ST (END OF) |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| Geolocation Id: | 5977 |
| Status: | No Further Action (Conditional) |
| Lat/Long: | 42.5703 / -121.868 |

---

**26**
**West**
**1/4-1/2**
**0.481 mi.**
**2542 ft.**

**CHILOQUIN CHRISTIAN CENTER HEATING OIL RELEASE** **ECSI** **S110764088**
**301 S CHILOQUIN BLVD.** **N/A**
**CHILOQUIN, OR 97624**

**Relative:**
**Lower**

**Actual:**
**4191 ft.**

ECSI:

| | |
|---|---|
| Name: | CHILOQUIN CHRISTIAN CENTER HEATING OIL RELEASE |
| Address: | 301 S CHILOQUIN BLVD. |
| City,State,Zip: | CHILOQUIN, OR 97624 |
| State ID Number: | 5491 |
| Brown ID: | 0 |
| Study Area: | False |
| Region ID: | 1 |
| Legislatve ID: | 0 |
| Investigation: | No Further Action |
| FACA ID: | 118905 |
| Further Action: | 0 |
| Lat/Long (dms): | 42 34 34.70 / -121 52 19.60 |
| County Code: | 18.00 |
| Score Value: | Not reported |
| Cerclis ID: | Not reported |
| Township Coord.: | 34.00 |
| Township Zone: | S |
| Range Coord: | 7.00 |
| Range Zone: | E |
| Section Coord: | 34 |
| Qtr Section: | Not reported |
| Tax Lots: | 9698;9710;9777 |
| Size: | Not reported |
| NPL: | False |
| Orphan: | False |
| Updated By: | GWISTAR |
| Update Date: | 09/26/2012 |
| Created Date: | 02/03/2011 |
| Decode For RegionID: | Eastern Region |
| Decode For BrownID: | Not reported |
| Decode For Furtheract: | Not reported |
| Decode For Investstat: | No Further Action |
| Decode For Legislative: | Not reported |

Narrative:

| | |
|---|---|
| NARR ID: | 5752783 |
| NARR Code: | Contamination |

**CHILOQUIN CHRISTIAN CENTER HEATING OIL RELEASE (Continued)** **S110764088**

Created By: DCROUSE
Created Date: 02/03/2011
Updated By: DCROUSE
Updated Date: 02/03/2011
Decode for NarcdID: Contamination
NARR Comments: (2/3/11 DMC/SAS) Report forwarded to ER/SAS by consultant for heating oil release from an aboveground storage tank (AST).

NARR ID: 5752784
NARR Code: Data Sources
Created By: DCROUSE
Created Date: 02/03/2011
Updated By: DCROUSE
Updated Date: 02/03/2011
Decode for NarcdID: Data Sources
NARR Comments: 1. Maul Foster Alongi Focused Investigation (2/1/11).

NARR ID: 5752785
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 02/03/2011
Updated By: DCROUSE
Updated Date: 06/27/2011
Decode for NarcdID: Remedial Action
NARR Comments: (2/3/11 DMC/SAS) In progress. (6/27/11 DMC/SAS) NFA issued by ER Tanks.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 02/03/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/03/2011
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: 9425
Region: Eastern Region
Complete Date: 06/23/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/03/2011
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: 9443
Region: Eastern Region

**CHILOQUIN CHRISTIAN CENTER HEATING OIL RELEASE (Continued)** **S110764088**

Complete Date: 06/23/2011
Rank Value: Not reported
Cleanup Flag: True
Created Date: 06/23/2011
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

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**27**
**SW**
**1/2-1**
**0.559 mi.**
**2954 ft.**

**CHILOQUIN FOREST PRODUCTS (FORMER) - WOOD WASTE** **ECSI** **S108834144**
**BLOCKLINGER ST (WEST END OF)** **BROWNFIELDS** **N/A**
**CHILOQUIN, OR 97624**

**Relative:**
**Lower**

**Actual:**
**4174 ft.**

ECSI:
Name: CHILOQUIN FOREST PRODUCTS (FORMER) - WOOD WASTE
Address: BLOCKLINGER ST (WEST END OF)
City,State,Zip: CHILOQUIN, OR 97624
State ID Number: 4885
Brown ID: Brownfield Site - DEQ Tech Assistance
Study Area: False
Region ID: 1
Legislatve ID: 838
Investigation: Suspect
FACA ID: 104752
Further Action: 0
Lat/Long (dms): 42 34 14.50 / -121 52 16.00
County Code: 18.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 35.00
Township Zone: S
Range Coord: 7.00
Range Zone: E
Section Coord: 3
Qtr Section: AB
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: KROBERT
Update Date: 07/11/2013
Created Date: 10/08/2007
Decode For RegionID: Eastern Region
Decode For BrownID: Brownfield Site - DEQ Technical Assistance
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Orphan Site Account

Narrative:
NARR ID: 5754764
NARR Code: Contamination
Created By: KROBERT
Created Date: 07/11/2013

**CHILOQUIN FOREST PRODUCTS (FORMER) - WOOD WASTE (Continued)** **S108834144**

Updated By: KROBERT
Updated Date: 07/11/2013
Decode for NarcdID: Contamination
NARR Comments: (7/11/13 KJR/SAS) Wood waste generated during the mills operation accumulated in two primary areas: along 600 feet of the Sprague River bank and the log deck. An estimated 26,000 cubic yards of wood waste are estimated to be present on the site. The wood waste may extend between 10 feet to 15 feet along the Sprague River and was about 2 feet thick on the log deck area. The wood waste along the Sprague River is primarily located above the river s high water mark. The wood waste material is not contaminated by hazardous substances, however thick deposits of wood waste can results in acidic conditions and/or an oxygen-reducing environment that mobilizes iron and manganese from soil through rainfall infiltration or groundwater contact. This results in infrequent iron and manganese leaching into the Sprague River during high water and heavy rain periods. Leaching of iron and manganese has only been documented during one sampling event performed in February 2003. During the 2007 Remedial Action (see ECSI 1213), the majority of the wood waste located on the log deck was spread out in a thin layer (<3 inches) onto the soil cap and worked into the cap with heavy equipment to prevent erosion of the cap. The wood waste along the Sprague River bank remains.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 10/08/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/08/2007
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: 9518
Region: Eastern Region
Complete Date: 05/27/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/08/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: TARGETED BROWNFIELD ASSESSMENT
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Eastern Region
Complete Date: 01/05/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/08/2007

**CHILOQUIN FOREST PRODUCTS (FORMER) - WOOD WASTE (Continued)** **S108834144**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9470
Region: Eastern Region
Complete Date: 01/05/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/11/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: 0
Comments: Not reported

OR BROWNFIELDS:
Name: CHILOQUIN FOREST PRODUCTS (FORMER) - WOOD WASTE
Address: BLOCKLINGER ST (WEST END OF)
City,State,Zip: CHILOQUIN, OR 97624
Geolocation Id: 104752
Status: Other remedial or investigative action recommended
Lat/Long: 42.5707 / -121.871

Count: 0 records.

ORPHAN SUMMARY

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

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

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

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

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

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

Date of Government Version: 06/14/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 61

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
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: 06/01/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/09/2022
Data Release Frequency: Quarterly

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 05/01/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 08/02/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

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

SWF/LF: Solid Waste Facilities List

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

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
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: 04/15/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/29/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 08/12/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 04/15/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/29/2021
Number of Days to Update: 78
Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 84
Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 07/21/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***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: 06/01/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/09/2022
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: 06/01/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/09/2022
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: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

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

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: 03/26/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/22/2021
Number of Days to Update: 84

Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
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: 05/01/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 08/02/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Annually

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
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: 05/24/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

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: 10/14/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: No Update Planned

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

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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: 01/01/2002
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

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

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

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

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: 08/30/2021
Date Data Arrived at EDR: 08/31/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 50
Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Site Listing
A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/19/2021
Number of Days to Update: 85
Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Site Contamination Listing
Site locations where pfas contamination has been detected.

Date of Government Version: 05/03/2021
Date Data Arrived at EDR: 05/05/2021
Date Made Active in Reports: 07/21/2021
Number of Days to Update: 77
Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

***Local Land Records***

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
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: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

SPILLS: Spill Data
Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/22/2021
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents

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

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/19/2021
Number of Days to Update: 85

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/08/2021
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/15/2021
Next Scheduled EDR Contact: 01/24/2022
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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

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

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
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: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
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: 07/19/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 85

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/20/2021
Next Scheduled EDR Contact: 01/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 12/13/2021
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: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 11/15/2021
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: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

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

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/18/2021
Next Scheduled EDR Contact: 01/31/2022
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: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

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

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

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

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
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: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
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: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
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: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

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

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
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: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91
Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 06/26/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 06/24/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Sites Listing
A listing of coal ash disposal sites.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/15/2021
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 08/25/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 04/22/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 04/27/2021
Number of Days to Update: 4

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 07/21/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Annually

ENF: Enforcement Action Listing
Enforcement actions

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 03/03/2021
Number of Days to Update: 1

Source: Department of Environmental Quality
Telephone: 503-229-5696
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 06/21/2021
Date Made Active in Reports: 09/15/2021
Number of Days to Update: 86

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 08/25/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/31/2021
Date Data Arrived at EDR: 09/02/2021
Date Made Active in Reports: 09/15/2021
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
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: 07/26/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/19/2021
Number of Days to Update: 85

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 07/28/2021
Date Made Active in Reports: 10/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/30/2021
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 08/02/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 08/03/2021
Next Scheduled EDR Contact: 11/15/2021
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: 04/12/2021
Date Data Arrived at EDR: 04/14/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

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

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

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

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

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

**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: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

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

Electric Power Transmission Line Data
Source: Endeavor Business Media
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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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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**

W CHOCKTOOT BLOCK
100-116 W CHOCKTOOT ST
CHILOQUIN, OR 97624

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 42.576707 - 42° 34' 36.15'' |
| Longitude (West): | 121.862632 - 121° 51' 45.48'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 593341.9 |
| UTM Y (Meters): | 4714223.0 |
| Elevation: | 4196 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 6071694 CHILOQUIN, OR |
| Version Date: | 2014 |
| | |
| West Map: | 6072131 AGENCY 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.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

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

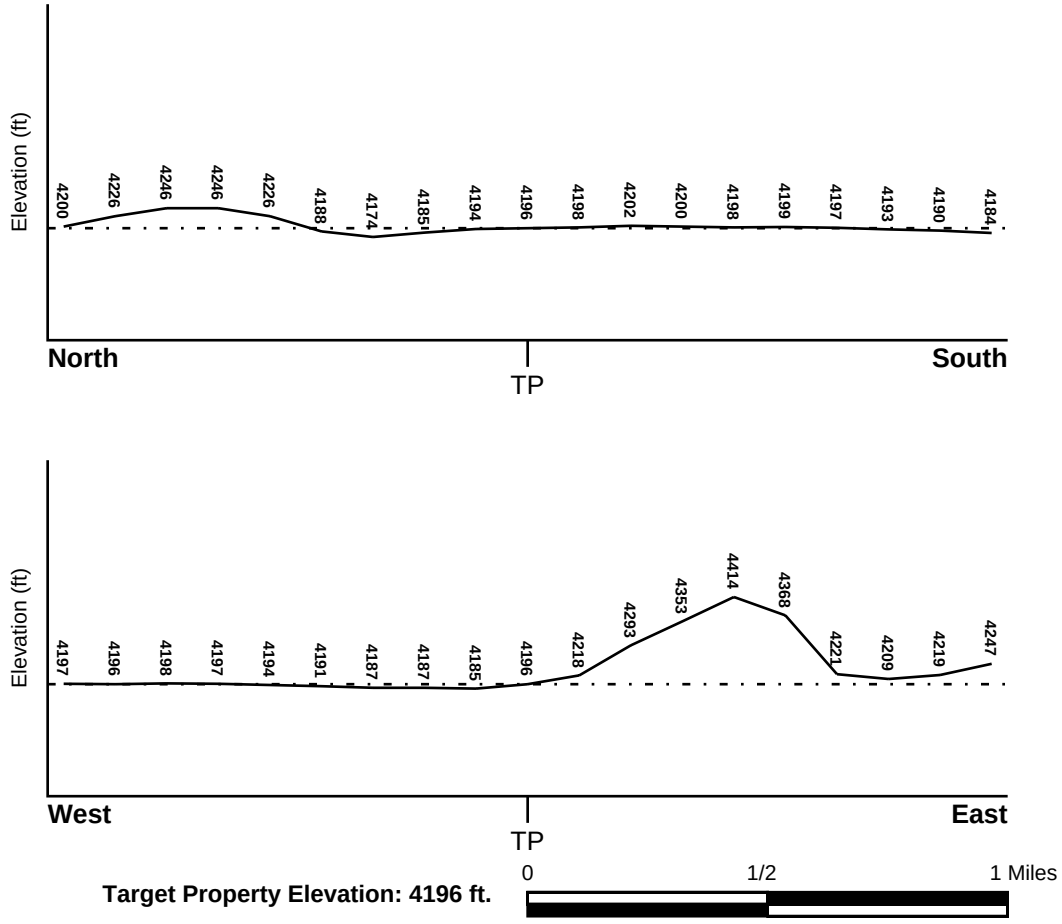
**TOPOGRAPHIC INFORMATION**

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

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General West

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 4196 ft.**

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

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

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

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| Not Reported | |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| Not Reported | |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| CHILOQUIN SE | 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 | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

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

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

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

**ROCK STRATIGRAPHIC UNIT**

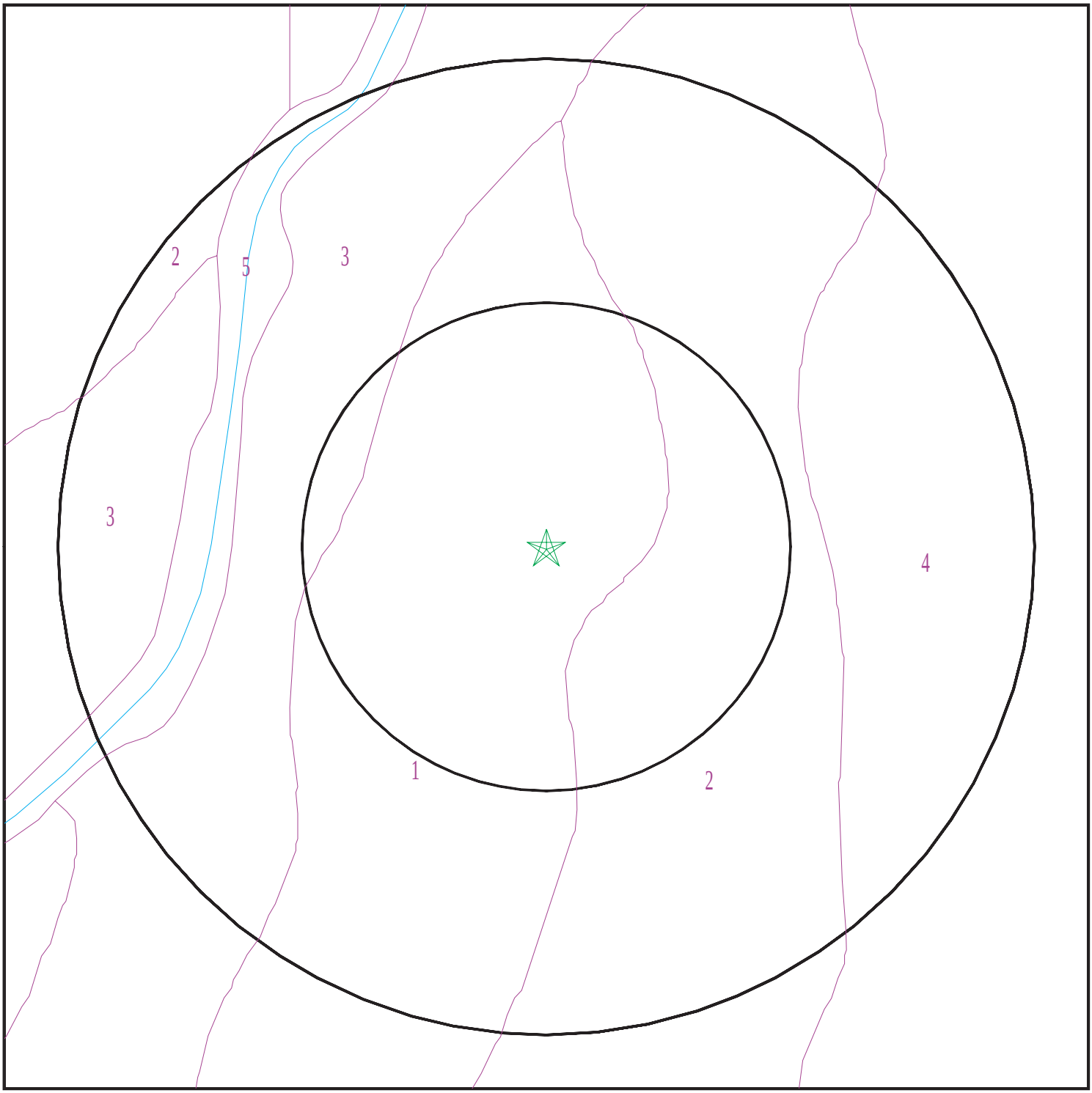
| | |
|---|---|
| Era: | Cenozoic |
| System: | Tertiary |
| Series: | Pliocene |
| Code: | Tpc *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Continental Deposits

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

# SSURGO SOIL MAP - 6717501.2s




| | | | |
|---|---|---|---|
| SITE NAME: | W Chocktoot Block | CLIENT: | Cardno |
| ADDRESS: | 100-116 W Chocktoot St<br>Chiloquin OR 97624 | CONTACT: | Sam Urban |
| | | INQUIRY #: | 6717501.2s |
| LAT/LONG: | 42.576707 / 121.862632 | DATE: | October 23, 2021 2:40 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

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

---

**Soil Map ID: 1**

Soil Component Name: Lobert

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

**Soil Layer Information**

| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|---|---|---|---|---|---|---|---|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 16 inches | sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4 | Max: 7.3<br>Min: 5.6 |
| 2 | 16 inches | 31 inches | fine sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4 | Max: 7.3<br>Min: 5.6 |
| 3 | 31 inches | 59 inches | fine sandy loam | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 14<br>Min: 4 | Max: 7.3<br>Min: 5.6 |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 2**

Soil Component Name: Shanahan

Soil Surface Texture: gravelly loamy coarse sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

**Soil Layer Information**

| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
|---|---|---|---|---|---|---|---|
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 3 inches | gravelly loamy coarse sand | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42<br>Min: 14 | Max: 7.3<br>Min: 6.1 |
| 2 | 3 inches | 14 inches | gravelly coarse sand | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42<br>Min: 14 | Max: 7.3<br>Min: 6.1 |
| 3 | 14 inches | 25 inches | coarse sand | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42<br>Min: 14 | Max: 7.3<br>Min: 6.1 |
| 4 | 25 inches | 44 inches | fine sandy loam | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42<br>Min: 14 | Max: 7.3<br>Min: 6.1 |

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 5 | 44 inches | 59 inches | extremely cobbly fine sandy loam | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42<br>Min: 14 | Max: 7.3<br>Min: 6.1 |

---

**Soil Map ID: 3**

Soil Component Name: Klamath

Soil Surface Texture: silty clay

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

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 11 inches | silty clay | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt. | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 6.6 |
| 2 | 11 inches | 27 inches | silty clay | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt. | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 6.6 |

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 3 | 27 inches | 59 inches | silty clay | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt. | Max: 1.4<br>Min: 0.42 | Max: 8.4<br>Min: 6.6 |

---

**Soil Map ID: 4**

Soil Component Name: Maset

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | coarse sandy loam | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | Not reported | Max:<br>Min: | Max: Min: |
| 2 | 7 inches | 20 inches | gravelly coarse sandy loam | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | Not reported | Max:<br>Min: | Max: Min: |

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 3 | 20 inches | 31 inches | very gravelly clay loam | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | Not reported | Max:<br>Min: | Max: Min: |
| 4 | 31 inches | 42 inches | weathered bedrock | Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand. | Not reported | Max:<br>Min: | Max: Min: |

---

**Soil Map ID: 5**

Soil Component Name: Water

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

**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.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**WELL SEARCH DISTANCE INFORMATION**

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

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| A1 | USGS40000987025 | 0 - 1/8 Mile SE |
| B5 | USGS40000987037 | 1/4 - 1/2 Mile NNE |
| C6 | USGS40000987030 | 1/4 - 1/2 Mile WNW |
| D10 | USGS40000987031 | 1/2 - 1 Mile ENE |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

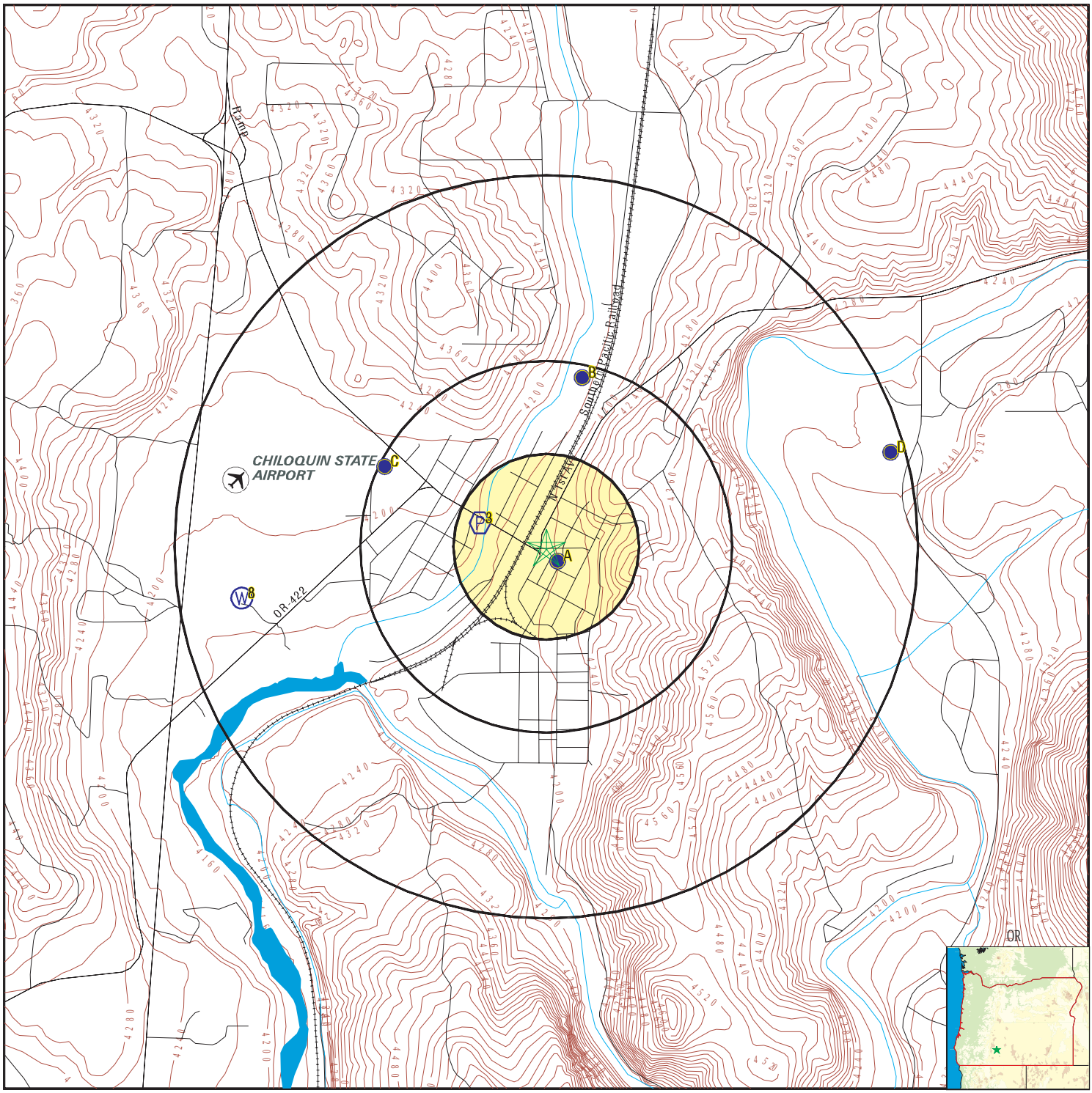
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 3 | OR4190390 | 1/8 - 1/4 Mile WNW |

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

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| A2 | ORW600000015664 | 0 - 1/8 Mile SSE |
| B4 | ORW600000012775 | 1/4 - 1/2 Mile NNE |
| C7 | ORW600000015665 | 1/4 - 1/2 Mile WNW |
| 8 | ORW600000018114 | 1/2 - 1 Mile West |
| D9 | ORW600000012773 | 1/2 - 1 Mile ENE |

# PHYSICAL SETTING SOURCE MAP - 6717501.2s




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

| | | | |
|---|---|---|---|
| SITE NAME: | W Chocktoot Block | CLIENT: | Cardno |
| ADDRESS: | 100-116 W Chocktoot St<br>Chiloquin OR 97624 | CONTACT: | Sam Urban |
| | | INQUIRY #: | 6717501.2s |
| LAT/LONG: | 42.576707 / 121.862632 | DATE: | October 23, 2021 2:40 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**A1**
**SE**
**0 - 1/8 Mile**
**Higher** | **FED USGS** | **USGS40000987025**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-OR | Organization Name: | USGS Oregon Water Science Center |
| Monitor Location: | 34.00S/07.00E-34DDB01 | Type: | Well |
| Description: | Not Reported | HUC: | 18010202 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19400000 |
| Well Depth: | 1320 | Well Depth Units: | ft |
| Well Hole Depth: | 1320 | Well Hole Depth Units: | ft |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 1999-10-25 |
| Feet below surface: | 19.74 | Feet to sea level: | Not Reported |
| Note: | Other conditions existed that would affect the measured water level. | | |

| | | | |
|---|---|---|---|
| Level reading date: | 1940 | Feet below surface: | 19 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

---

**A2**
**SSE**
**0 - 1/8 Mile**
**Higher** | **OR WELLS** | **ORW600000015664**

| | | | |
|---|---|---|---|
| Well Log ID: | KLAM 58404 | Last Update: | 11/03/2013 |
| Well Tag: | 0 | State Obs Well #: | 0 |
| Observation Well: | Not Reported | Recorder Well: | Not Reported |
| Obs Well Flag: | Not Reported | Surface Elevation: | 4210 |

---

**3**
**WNW**
**1/8 - 1/4 Mile**
**Lower** | **FRDS PWS** | **OR4190390**

| | | | |
|---|---|---|---|
| Epa region: | 10 | State: | OR |
| Pwsid: | OR4190390 | Pwsname: | SPORTSMANS MOTEL |
| Cityserved: | Not Reported | Stateserved: | OR |
| Zipserved: | Not Reported | Fipscounty: | 41035 |
| Status: | Closed | Retpopsrvd: | 10 |
| Pwssvcconn: | 3 | Psource longname: | Groundwater |
| Pwstype: | TNCWS | Owner: | Private |
| Contact: | FITTS, JUNE | Contactorgname: | FITTS, JUNE |
| Contactphone: | 541-783-3573 | Contactaddress1: | 27627 HWY 97 N |
| Contactaddress2: | Not Reported | Contactcity: | CHILOQUIN |
| Contactstate: | OR | Contactzip: | 97624 |
| Pwsactivitycode: | N | | |

| | | | |
|---|---|---|---|
| PWS ID: | OR4190390 | PWS type: | Not Reported |
| PWS name: | Not Reported | PWS address: | Not Reported |
| PWS city: | Not Reported | PWS state: | Not Reported |
| PWS zip: | Not Reported | PWS ID: | OR4190390 |
| Activity status: | Active | Date system activated: | Not Reported |
| Date system deactivated: | Not Reported | Retail population: | 00000025 |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---|---|---|---|
| System name: | AL'S SPORTSMANS MOTEL | System address: | STAR ROUTE, BOX 27 |
| System city: | CHILOQUIN | System state: | OR |
| System zip: | 97624 | | |
| Population served: | Under 101 Persons | Treatment: | Untreated |
| Latitude: | 423440 | Longitude: | 1215154 |

| | | | |
|---|---|---|---|
| Violation id: | 184401 | Orig code: | S |
| State: | OR | Violation Year: | 2001 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2001 |
| Cmp edt: | 03/31/2001 | | |

| | | | |
|---|---|---|---|
| Violation id: | 191800 | Orig code: | S |
| State: | OR | Violation Year: | 2000 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2000 |
| Cmp edt: | 03/31/2000 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2499602 | Orig code: | S |
| State: | OR | Violation Year: | 2002 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 04/01/2002 |
| Cmp edt: | 06/30/2002 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2499903 | Orig code: | S |
| State: | OR | Violation Year: | 2002 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2002 |
| Cmp edt: | 09/30/2002 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2500203 | Orig code: | S |
| State: | OR | Violation Year: | 2002 |
| Contamination code: | 1040 | Contamination Name: | Nitrate |
| Violation code: | 03 | Violation name: | Monitoring, Regular |
| Rule code: | 331 | Rule name: | Nitrates |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2002 |
| Cmp edt: | 12/31/2002 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2500303 | Orig code: | S |
| State: | OR | Violation Year: | 2003 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2003 |
| Cmp edt: | 03/31/2003 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2500804 | Orig code: | S |
| State: | OR | Violation Year: | 2003 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2003 |
| Cmp edt: | 09/30/2003 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2501004 | Orig code: | S |
| State: | OR | Violation Year: | 2004 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2004 |
| Cmp edt: | 03/31/2004 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2501106 | Orig code: | S |
| State: | OR | Violation Year: | 2005 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2005 |
| Cmp edt: | 09/30/2005 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2501208 | Orig code: | S |
| State: | OR | Violation Year: | 2007 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2007 |
| Cmp edt: | 09/30/2007 | | |

| | | | |
|---|---|---|---|
| Violation id: | 2502010 | Orig code: | S |
| State: | OR | Violation Year: | 2009 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 22 | Violation name: | MCL, Monthly (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2009 |
| Cmp edt: | 09/30/2009 | | |

| | | | |
|---|---|---|---|
| Violation id: | 313001 | Orig code: | S |
| State: | OR | Violation Year: | 2001 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 04/01/2001 |
| Cmp edt: | 06/30/2001 | | |

| | | | |
|---|---|---|---|
| Violation id: | 320700 | Orig code: | S |
| State: | OR | Violation Year: | 2000 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 04/01/2000 |
| Cmp edt: | 06/30/2000 | | |

| | | | |
|---|---|---|---|
| Violation id: | 36102 | Orig code: | S |
| State: | OR | Violation Year: | 2001 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 10/01/2001 |
| Cmp edt: | 12/31/2001 | | |

| | | | |
|---|---|---|---|
| Violation id: | 439701 | Orig code: | S |
| State: | OR | Violation Year: | 2001 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2001 |
| Cmp edt: | 09/30/2001 | | |

| | | | |
|---|---|---|---|
| Violation id: | 473500 | Orig code: | S |
| State: | OR | Violation Year: | 2000 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 07/01/2000 |
| Cmp edt: | 09/30/2000 | | |

| | | | |
|---|---|---|---|
| Violation id: | 585001 | Orig code: | S |
| State: | OR | Violation Year: | 2001 |
| Contamination code: | 1040 | Contamination Name: | Nitrate |
| Violation code: | 03 | Violation name: | Monitoring, Regular |
| Rule code: | 331 | Rule name: | Nitrates |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2001 |
| Cmp edt: | 12/31/2001 | | |

| | | | |
|---|---|---|---|
| Violation id: | 63601 | Orig code: | S |
| State: | OR | Violation Year: | 2000 |
| Contamination code: | 3100 | Contamination Name: | Coliform (TCR) |
| Violation code: | 23 | Violation name: | Monitoring, Routine Major (TCR) |
| Rule code: | 110 | Rule name: | TCR |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 10/01/2000 |
| Cmp edt: | 12/31/2000 | | |

| | | | |
|---|---|---|---|
| Violation id: | 684000 | Orig code: | S |
| State: | OR | Violation Year: | 2000 |
| Contamination code: | 1040 | Contamination Name: | Nitrate |
| Violation code: | 03 | Violation name: | Monitoring, Regular |
| Rule code: | 331 | Rule name: | Nitrates |
| Violation measur: | Not Reported | Unit of measure: | Not Reported |
| State mcl: | Not Reported | Cmp bdt: | 01/01/2000 |
| Cmp edt: | 12/31/2000 | | |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9401694 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | COLIFORM (TCR) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 010194 | Violation end date: | 033194 |
| Violation period (months): | 003 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |

| | | | |
|---|---|---|---|
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |
| Violation ID: | 111595 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 114997 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 1317291 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 169494 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 184401 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 185099 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 191800 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 239096 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2498592 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2499602 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 11/08/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2499602 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 02/14/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2499903 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 02/14/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2499903 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 11/08/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2500203 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 04/04/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2500303 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 06/05/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |

| | | | |
|---|---|---|---|
| Violation ID: | 2500804 | Orig Code: | S |
| Enforcemnt FY: | 2004 | Enforcement Action: | 11/06/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2501004 | Orig Code: | S |
| Enforcemnt FY: | 2004 | Enforcement Action: | 05/05/2004 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2501106 | Orig Code: | S |
| Enforcemnt FY: | 2006 | Enforcement Action: | 01/06/2006 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2501208 | Orig Code: | S |
| Enforcemnt FY: | 2010 | Enforcement Action: | 10/01/2009 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 2502010 | Orig Code: | S |
| Enforcemnt FY: | 2010 | Enforcement Action: | 11/02/2009 |
| Enforcement Detail: | St Public Notif received | Enforcement Category: | Informal |
| Violation ID: | 2502010 | Orig Code: | S |
| Enforcemnt FY: | 2010 | Enforcement Action: | 10/14/2009 |
| Enforcement Detail: | St Public Notif requested | Enforcement Category: | Informal |
| Violation ID: | 2502010 | Orig Code: | S |
| Enforcemnt FY: | 2010 | Enforcement Action: | 10/19/2009 |
| Enforcement Detail: | St Violation/Reminder Notice | | |
| Enforcement Category: | Informal | | |
| Violation ID: | 2502010 | Orig Code: | S |
| Enforcemnt FY: | 2010 | Enforcement Action: | 02/24/2010 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 270897 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 284495 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 313001 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 320700 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 323998 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 36102 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 36102 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 02/14/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 387396 | Orig Code: | S |

| | | | |
|---|---|---|---|
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 412397 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 439701 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 473500 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 49699 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 52598 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 575797 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 585001 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 04/04/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 607895 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 63601 | Orig Code: | S |
| Enforcemnt FY: | 2002 | Enforcement Action: | 04/03/2002 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 641198 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 04/04/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |
| Violation ID: | 684000 | Orig Code: | S |
| Enforcemnt FY: | 2003 | Enforcement Action: | 04/04/2003 |
| Enforcement Detail: | St Compliance achieved | Enforcement Category: | Resolving |

---

**B4**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**OR WELLS** **ORW600000012775**

| | | | |
|---|---|---|---|
| Well Log ID: | KLAM 973 | Last Update: | 04/05/2010 |
| Well Tag: | 0 | State Obs Well #: | 0 |
| Observation Well: | Not Reported | Recorder Well: | Not Reported |
| Obs Well Flag: | Not Reported | Surface Elevation: | 4178 |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**B5**
**NNE**
**1/4 - 1/2 Mile**
**Lower**

**FED USGS** **USGS40000987037**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-OR | Organization Name: | USGS Oregon Water Science Center |
| Monitor Location: | 34.00S/07.00E-34ADB01 | Type: | Well |
| Description: | Not Reported | HUC: | 18010201 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19810831 |
| Well Depth: | 114 | Well Depth Units: | ft |
| Well Hole Depth: | 114 | Well Hole Depth Units: | ft |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 2000-06-30 |
| Feet below surface: | 0.94 | Feet to sea level: | Not Reported |
| Note: | Other conditions existed that would affect the measured water level. | | |

| | | | |
|---|---|---|---|
| Level reading date: | 1981-08-31 | Feet below surface: | 4 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

---

**C6**
**WNW**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS40000987030**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-OR | Organization Name: | USGS Oregon Water Science Center |
| Monitor Location: | 34.00S/07.00E-34CAB01 | Type: | Well |
| Description: | Not Reported | HUC: | 18010201 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19740418 |
| Well Depth: | 750 | Well Depth Units: | ft |
| Well Hole Depth: | 750 | Well Hole Depth Units: | ft |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1999-10-25 |
| Feet below surface: | 29.92 | Feet to sea level: | Not Reported |
| Note: | Other conditions existed that would affect the measured water level. | | |

---

**C7**
**WNW**
**1/4 - 1/2 Mile**
**Higher**

**OR WELLS** **ORW600000015665**

| | | | |
|---|---|---|---|
| Well Log ID: | KLAM 51957 | Last Update: | 11/03/2013 |
| Well Tag: | 0 | State Obs Well #: | 0 |
| Observation Well: | Not Reported | Recorder Well: | Not Reported |
| Obs Well Flag: | Not Reported | Surface Elevation: | 4210 |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**8**
**West**
**1/2 - 1 Mile**
**Lower**

**OR WELLS** **ORW600000018114**

| | | | |
|---|---|---|---|
| Well Log ID: | KLAM 59387 | Last Update: | 11/09/2015 |
| Well Tag: | 0 | State Obs Well #: | 0 |
| Observation Well: | Not Reported | Recorder Well: | Not Reported |
| Obs Well Flag: | Not Reported | Surface Elevation: | 4191 |

---

**D9**
**ENE**
**1/2 - 1 Mile**
**Higher**

**OR WELLS** **ORW600000012773**

| | | | |
|---|---|---|---|
| Well Log ID: | KLAM 10587 | Last Update: | 04/05/2010 |
| Well Tag: | 0 | State Obs Well #: | 0 |
| Observation Well: | Noncurrent | Recorder Well: | Not Reported |
| Obs Well Flag: | Other Obs Well, Noncurrent | Surface Elevation: | 4210 |

---

**D10**
**ENE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS40000987031**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-OR | Organization Name: | USGS Oregon Water Science Center |
| Monitor Location: | 34.00S/07.00E-35DBA01 | Type: | Well |
| Description: | Not Reported | HUC: | 18010202 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | 19920915 |
| Well Depth: | 452 | Well Depth Units: | ft |
| Well Hole Depth: | 452 | Well Hole Depth Units: | ft |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 2000-06-30 |
| Feet below surface: | 9.97 | Feet to sea level: | Not Reported |
| Note: | Other conditions existed that would affect the measured water level. | | |

| | | | |
|---|---|---|---|
| Level reading date: | 1992-09-17 | Feet below surface: | 19 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: OR Radon

Radon Test Results

| Zipcode | Num Tests | Maximum | Minimum | Average | # > 4 pCi/L |
|---|---|---|---|---|---|
| 97624 | 4 | 1.2 | 0.3 | 0.8 | 0 |

Federal EPA Radon Zone for KLAMATH 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.

---

Federal Area Radon Information for KLAMATH COUNTY, OR

Number of sites tested: 12

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area | 0.470 pCi/L | 100% | 0% | 0% |
| Basement | 0.910 pCi/L | 92% | 8% | 0% |

# 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$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water 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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FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# E

## HISTORICAL AERIALS PACKAGE

**W Chocktoot Block**

100-116 W Chocktoot St

Chiloquin, OR 97624

Inquiry Number: 6717501.8

October 27, 2021

# The EDR Aerial Photo Decade Package

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

# EDR Aerial Photo Decade Package

10/27/21

**Site Name:**

W Chocktoot Block
100-116 W Chocktoot St
Chiloquin, OR 97624
EDR Inquiry # 6717501.8

**Client Name:**

Cardno
6611 Bay Circle Suite 220
Norcross, GA 30071
Contact: Sam Urban

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

## *Search Results:*

| *Year* | *Scale* | *Details* | *Source* |
|---|---|---|---|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 2000 | 1"=750' | Flight Date: July 28, 2000 | USGS |
| 1994 | 1"=500' | Acquisition Date: August 29, 1994 | USGS/DOQQ |
| 1982 | 1"=500' | Flight Date: August 17, 1982 | USDA |
| 1975 | 1"=500' | Flight Date: September 26, 1975 | USGS |
| 1955 | 1"=500' | Flight Date: July 25, 1955 | USGS |
| 1953 | 1"=500' | Flight Date: October 22, 1953 | USGS |

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


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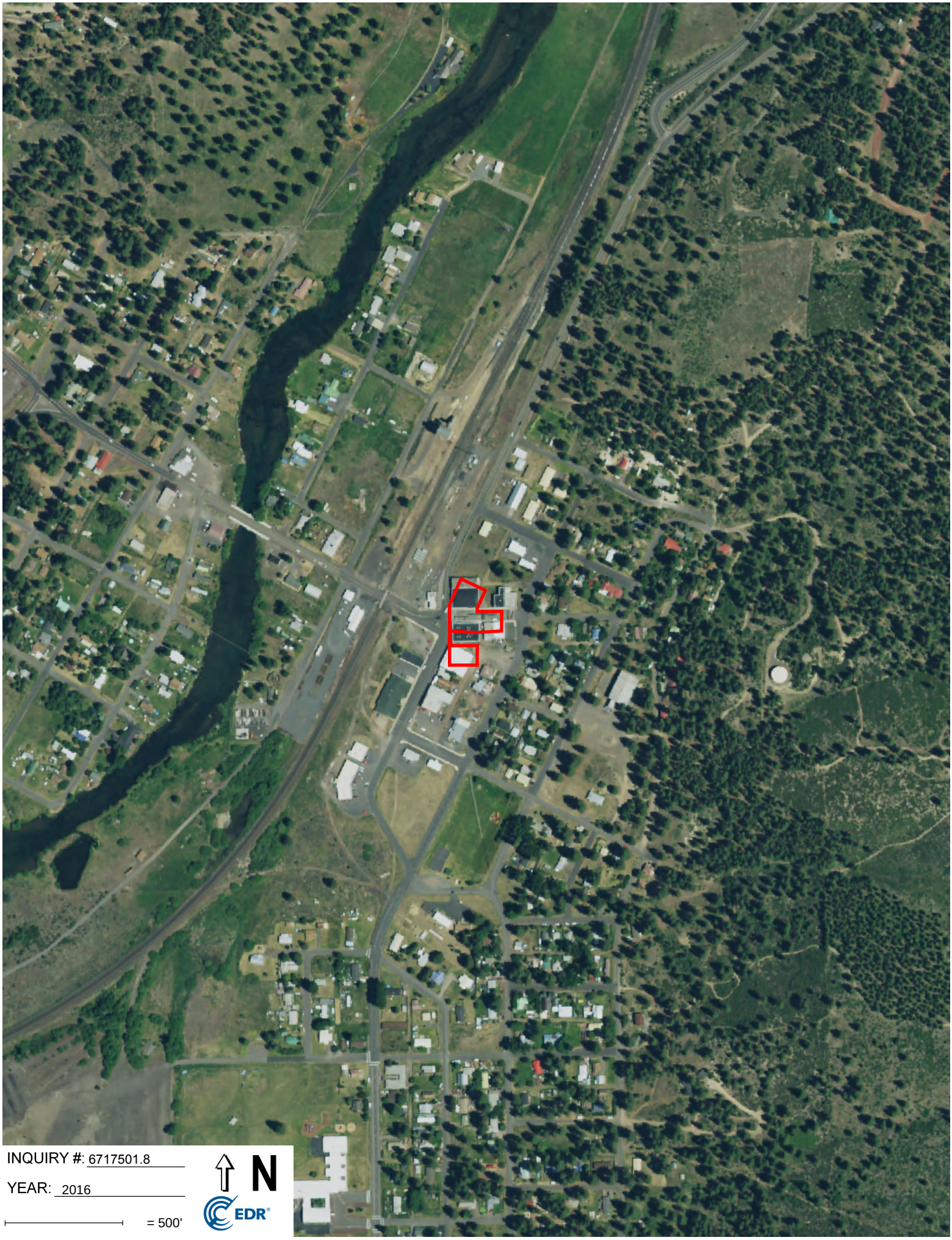
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YEAR: 2016
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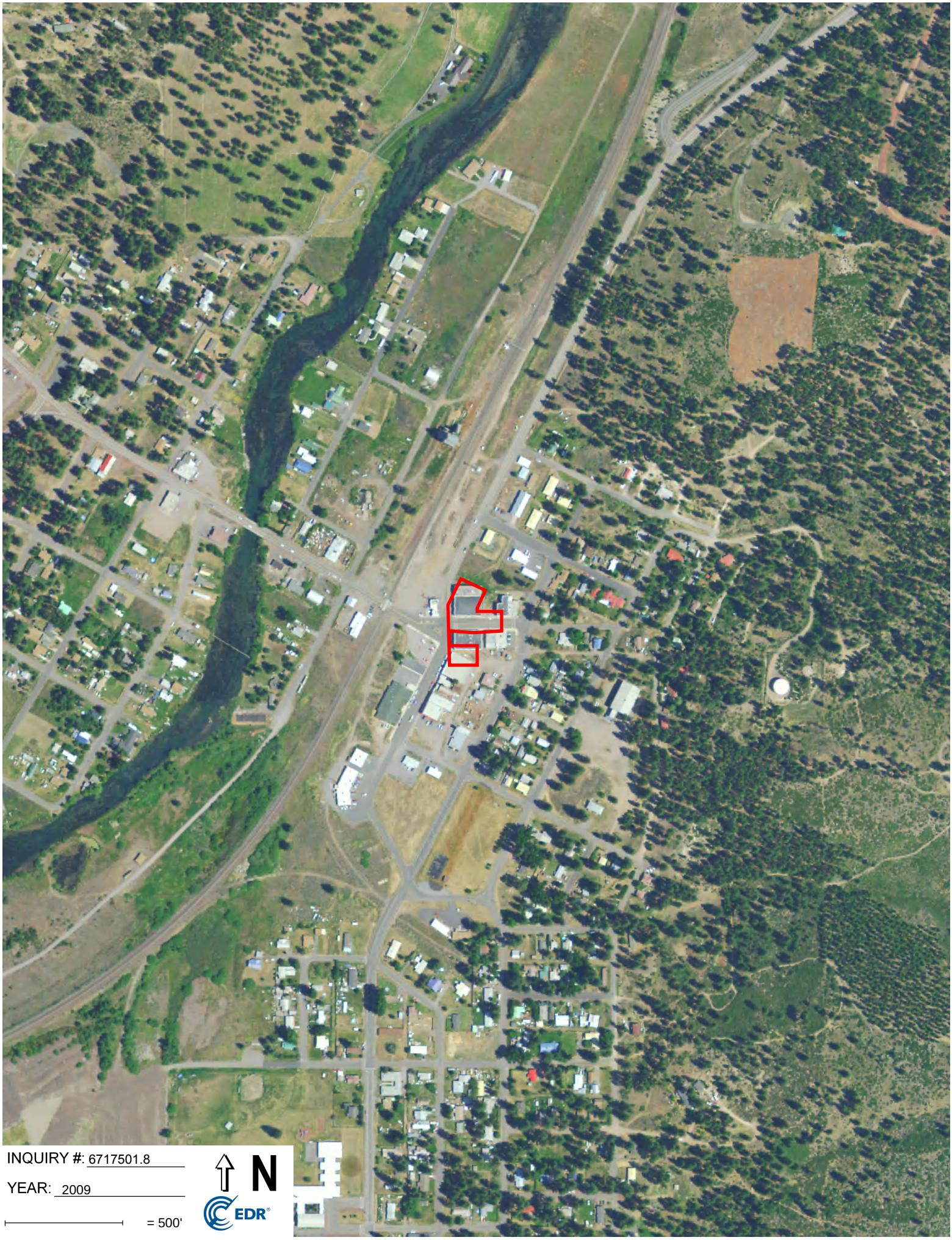
EDR

INQUIRY #: 6717501.8
YEAR: 2012
= 500'
N
EDR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YEAR: 2009
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EDR

INQUIRY #: 6717501.8
YEAR: 2006
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EDR

INQUIRY #: 6717501.8

YEAR: 2000

= 750'

N

EDR

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

INQUIRY #: 6717501.8

YEAR: 2000

= 500'

N

EDR

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

INQUIRY #: 6717501.8

YEAR: 1994

= 500'

N

EDR

INQUIRY #: 6717501.8
YEAR: 1982
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N
EDR

INQUIRY #: 6717501.8

YEAR: 1975

= 500'

N

EDR

INQUIRY #: 6717501.8

YEAR: 1955

= 500'

N

EDR

INQUIRY #: 6717501.8

YEAR: 1953

= 500'

N

EDR

FORMER MARKWARDT BROTHERS GARAGE

APPENDIX

# F

## HISTORICAL TOPOGRAPHIC MAPS

W Chocktoot Block
100-116 W Chocktoot St
Chiloquin, OR 97624

Inquiry Number: 6717501.4
October 22, 2021

# EDR Historical Topo Map Report

## with QuadMatch™

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

# EDR Historical Topo Map Report

10/22/21

**Site Name:**

W Chocktoot Block
100-116 W Chocktoot St
Chiloquin, OR 97624
EDR Inquiry # 6717501.4

**Client Name:**

Cardno
6611 Bay Circle Suite 220
Norcross, GA 30071
Contact: Sam Urban

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

***Search Results:***

**P.O.#** CHILOQ200

**Project:** Chiloquin Oregon Assessment

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 42.576707 42° 34' 36" North |
| **Longitude:** | -121.862632 -121° 51' 45" West |
| **UTM Zone:** | Zone 10 North |
| **UTM X Meters:** | 593339.35 |
| **UTM Y Meters:** | 4714437.42 |
| **Elevation:** | 4196.76' above sea level |

**Maps Provided:**

2014
1998
1957

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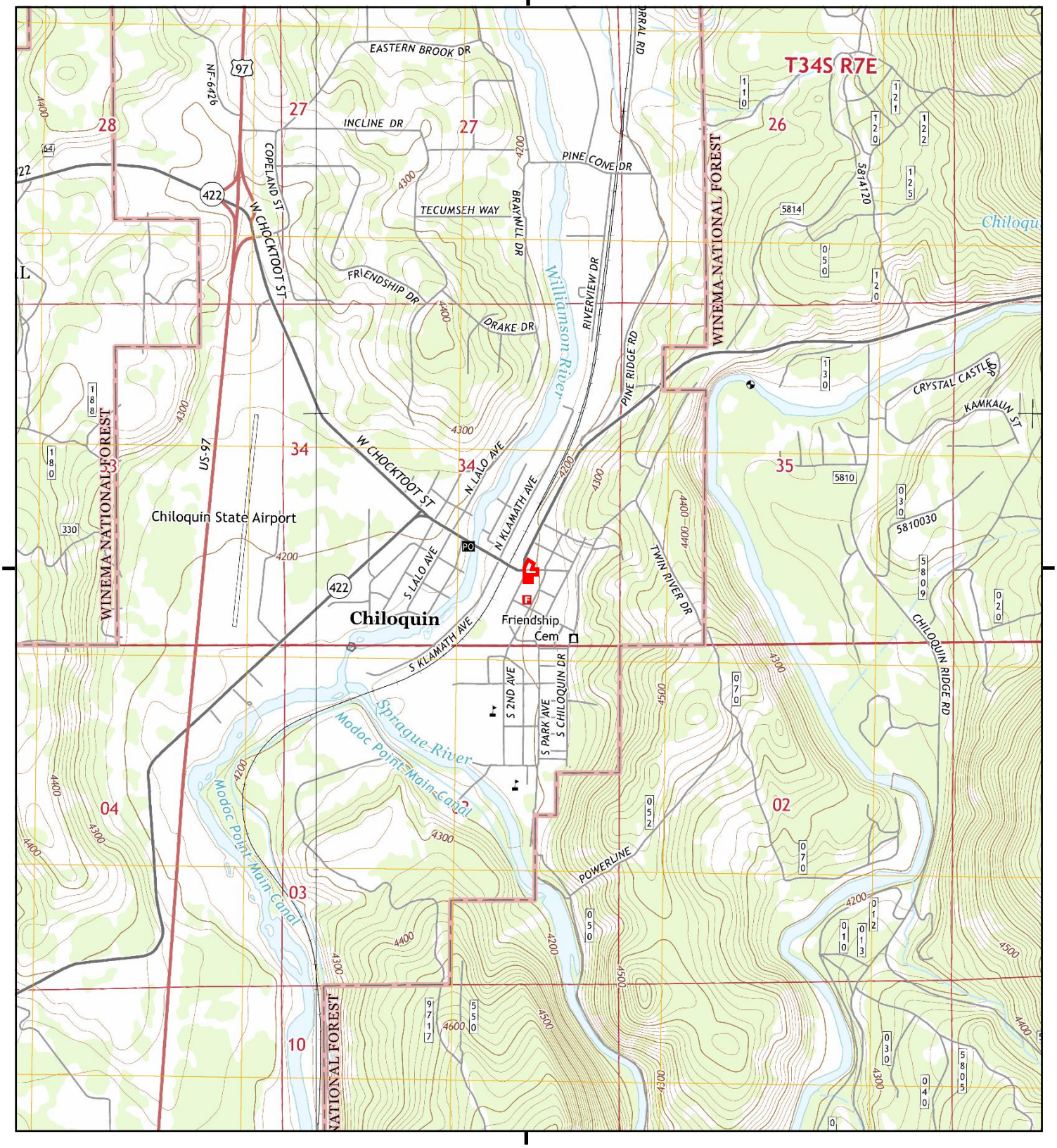
# Historical Topo Map

2014




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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

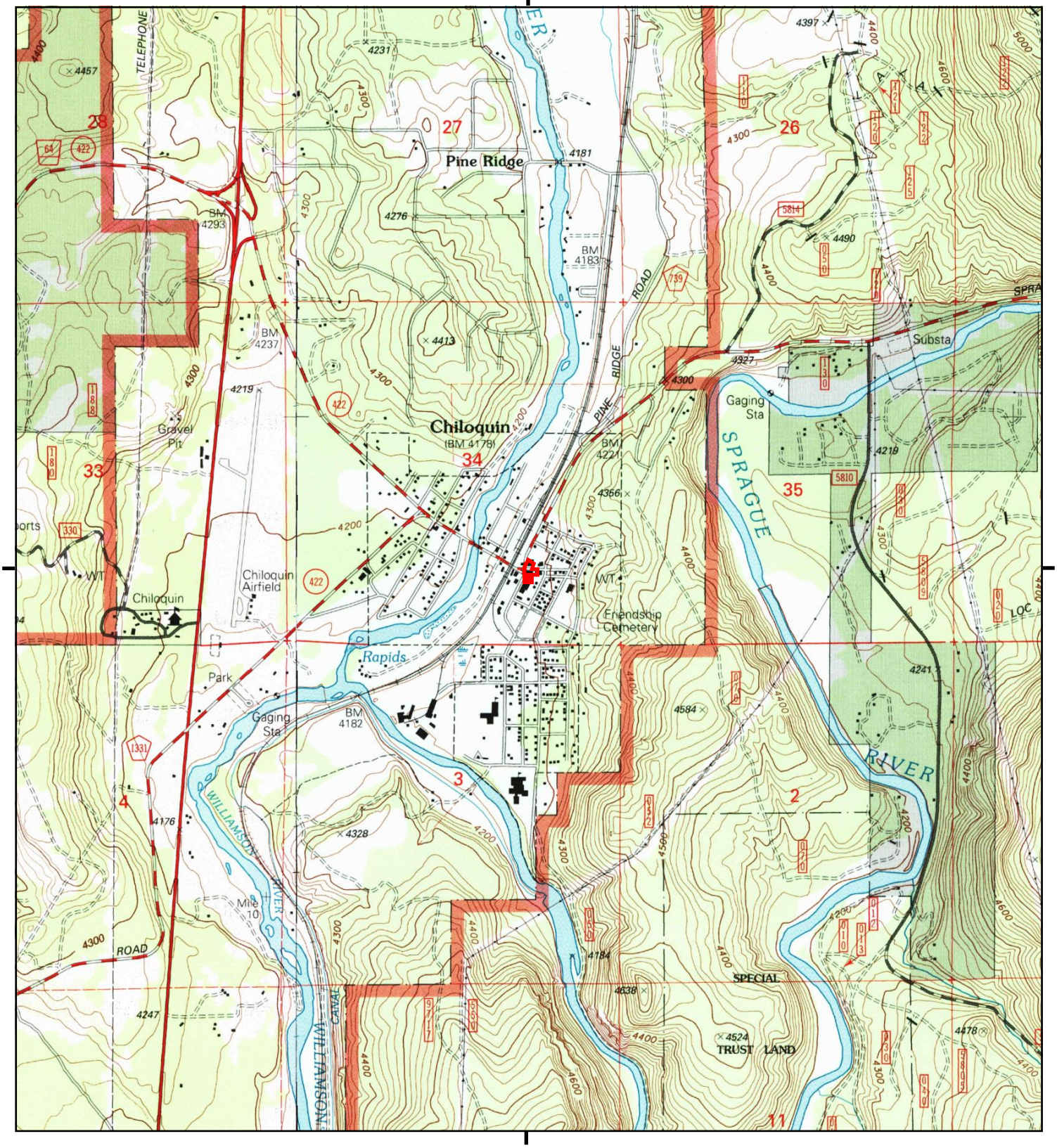
TP, Chiloquin, 2014, 7.5-minute
W, Agency Lake, 2014, 7.5-minute

SITE NAME: W Chocktoot Block
ADDRESS: 100-116 W Chocktoot St
Chiloquin, OR 97624
CLIENT: Cardno

N

# Historical Topo Map

1998




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

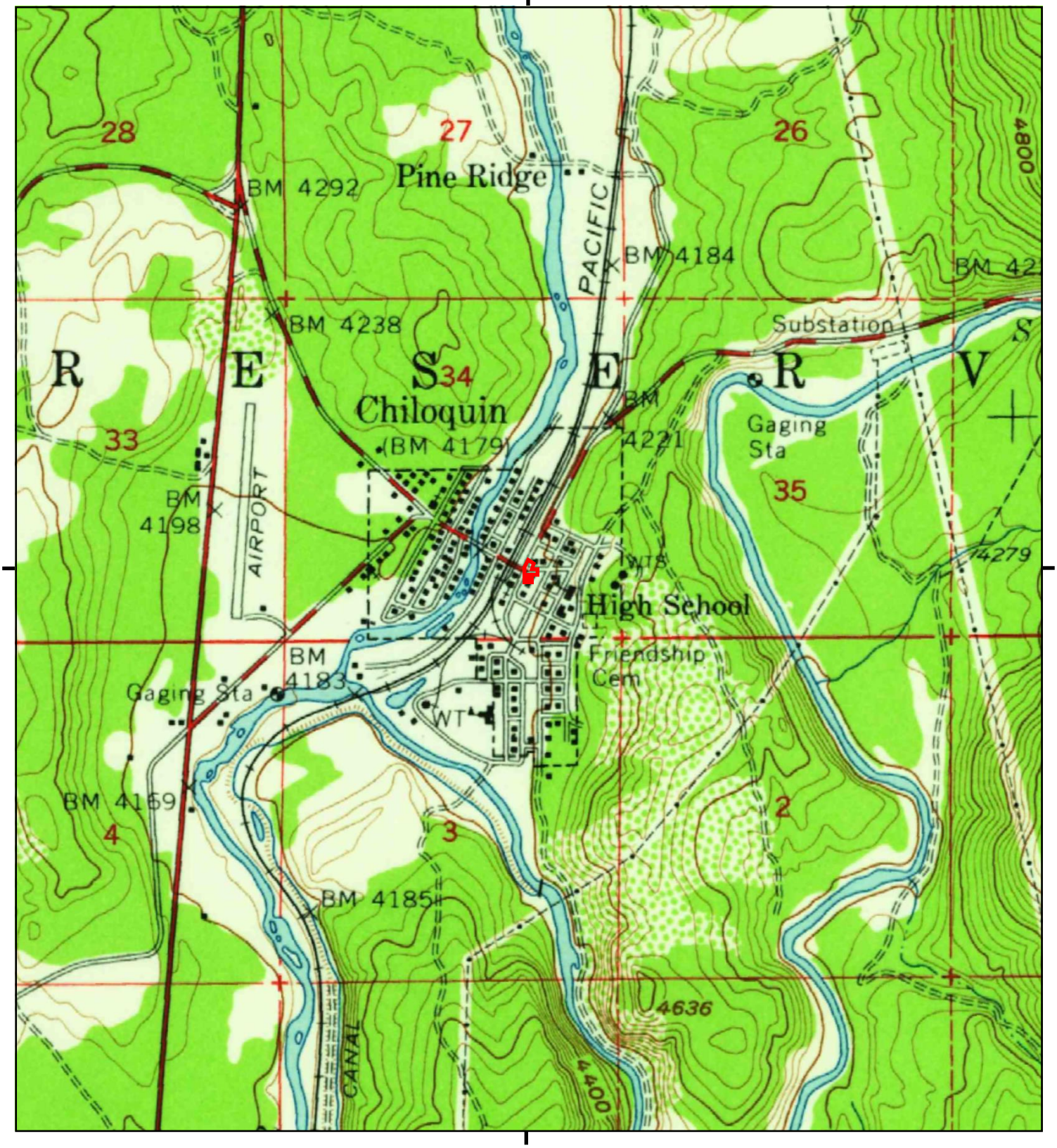
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Chiloquin, 1998, 7.5-minute
W, Agency Lake, 1998, 7.5-minute

SITE NAME: W Chocktoot Block
ADDRESS: 100-116 W Chocktoot St
Chiloquin, OR 97624
CLIENT: Cardno

N




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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Chiloquin, 1957, 15-minute

SITE NAME: W Chocktoot Block
ADDRESS: 100-116 W Chocktoot St
Chiloquin, OR 97624
CLIENT: Cardno

N

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# G

## HISTORICAL FIRE INSURANCE MAP REPORT

W Chocktoot Block

100-116 W Chocktoot St

Chiloquin, OR 97624

Inquiry Number: 6717501.3

October 25, 2021

# Certified Sanborn® Map Report

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

# Certified Sanborn® Map Report

10/25/21

**Site Name:**

W Chocktoot Block
100-116 W Chocktoot St
Chiloquin, OR 97624
EDR Inquiry # 6717501.3

**Client Name:**

Cardno
6611 Bay Circle Suite 220
Norcross, GA 30071
Contact: Sam Urban

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## *Certified Sanborn Results:*

**Certification #** 746D-477E-A219

**PO #** CHILOQ200

**Project** Chiloquin Oregon Assessment

**Maps Provided:**

1931

Sanborn® Library search results

Certification #: 746D-477E-A219

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- ☑ University Publications of America
- ☑ EDR Private Collection

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Certification #746D-477E-A219

| | |
|---|---|
| Site Name: | W Chocktoot Block |
| Address: | 100-116 W Chocktoot St |
| City, ST, ZIP: | Chiloquin, OR 97624 |
| Client: | Cardno |
| EDR Inquiry: | 6717501.3 |
| Order Date: | 10/25/2021 |
| Certification #: | 746D-477E-A219 |
| Copyright | 1931 |

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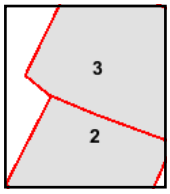
Outlined areas indicate map sheets within the collection.




Volume 1, Sheet 3
Volume 1, Sheet 2

0 Feet 150 300 600

N

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# H

## CITY DIRECTORY REPORT

**W Chocktoot Block**
100-116 W Chocktoot St
Chiloquin, OR 97624

Inquiry Number: 6717501.5
October 28, 2021

# The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

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

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

## RECORD SOURCES

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## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

| Year | Target Street | Cross Street | Source |
|---|---|---|---|
| 2017 | ☑ | ☑ | EDR Digital Archive |
| 2014 | ☑ | ☑ | EDR Digital Archive |
| 2010 | ☑ | ☐ | EDR Digital Archive |
| 2005 | ☐ | ☑ | EDR Digital Archive |
| 2000 | ☐ | ☑ | EDR Digital Archive |
| 1995 | ☑ | ☐ | EDR Digital Archive |
| 1992 | ☐ | ☐ | EDR Digital Archive |

# FINDINGS

## TARGET PROPERTY STREET

100-116 W Chocktoot St
Chiloquin, OR 97624

| *Year* | *CD Image* | *Source* | |
|---|---|---|---|
| **W CHOCKTOOT ST** | | | |
| 2017 | pg A2 | EDR Digital Archive | |
| 2014 | pg A4 | EDR Digital Archive | |
| 2010 | pg A5 | EDR Digital Archive | |
| 2005 | - | EDR Digital Archive | Target and Adjoining not listed in Source |
| 2000 | - | EDR Digital Archive | Target and Adjoining not listed in Source |
| 1995 | pg A8 | EDR Digital Archive | |
| 1992 | - | EDR Digital Archive | Target and Adjoining not listed in Source |

# FINDINGS

## CROSS STREETS

| *Year* | *CD Image* | *Source* | |
|---|---|---|---|
| **S 1ST AVE** | | | |
| 2017 | pg. A1 | EDR Digital Archive | |
| 2014 | pg. A3 | EDR Digital Archive | |
| 2010 | - | EDR Digital Archive | Target and Adjoining not listed in Source |
| 2005 | pg. A6 | EDR Digital Archive | |
| 2000 | pg. A7 | EDR Digital Archive | |
| 1995 | - | EDR Digital Archive | Target and Adjoining not listed in Source |
| 1992 | - | EDR Digital Archive | Target and Adjoining not listed in Source |

# City Directory Images

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

## S 1ST AVE 2017

| | |
|---|---|
| 117 | CHILDERS, MELINDA |
| | DO IT BEST |
| | KIRCHERS COAST TO COAST STORE |
| 123 | BINDIS BEAUTY BARN |
| 127 | CHILOQUIN AGENCY LAKE FIRE DISTRICT |
| 129 | BOBS FOOD CENTER |
| | NORRIS, JEANIE |
| 140 | COMMUNITY CORRECTION CHILOQUIN OFFIC |
| | THREE RIVERS CENTER |
| | TWO RIVERS GALLERY |
| 212 | CHOCKTOOTS BLACK BUFFALO COFFEE |
| | THE POT BELLY CAFE MAYDRA |
| 216 | CHILOQUIN BRANCH LIBRARY |
| | CHILOQUIN, BRANCH |
| | OREGON REFLECTIONS INC |
| 228 | UNITED STATES GOVERNMENT |

| Target Street | Cross Street | Source |
| --- | --- | --- |
| ✓ | - | EDR Digital Archive |

## W CHOCKTOOT ST 2017

| | |
| --- | --- |
| 201 | SHELL |
| 203 | WOOLERY, LAWRENCE A |
| 212 | MCKINNON, CHARLES |

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

## S 1ST AVE 2014

| | |
|---|---|
| 117 | CHILDERS, MELINDA |
| | KIRCHERS COAST TO COAST STORE |
| 123 | 1ST AVE SALON BOUTIQUE |
| | BINDIS BEAUTY BARN |
| 127 | CHILOQUIN AGENCY LAKE FIRE DISTRICT |
| 129 | BOBS FOOD CENTER |
| | FAMILY FOOD CENTER |
| | MILLER, CAROLINE |
| 140 | CHILOQUIN VISIONS IN PROGRESS |
| | COMMUNITY CORRECTION CHILOQUIN OFFIC |
| | THREE RIVERS CENTER |
| | TWO RIVERS GALLERY |
| 212 | CHOCKTOOTS BLACK BUFFALO COFFEE |
| | THE POT BELLY CAFE MAYDRA |
| 216 | CHILOQUIN BRANCH LIBRARY |
| | CHILOQUIN, BRANCH |
| | OREGON REFLECTIONS INC |
| 228 | UNITED STATES GOVERNMENT |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## W CHOCKTOOT ST 2014

| | |
|---|---|
| 118 | KLAMATH TRIBAL COURT |
| 119 | STANTON, DANIEL |
| 201 | CHILOQUIN SHELL & FOOD MART |
| 203 | WOOLERY, LAWRENCE A |
| 212 | MCKINNON, CHARLES |
| 227 | KUHN, SHARON |

| Target Street | Cross Street | Source |
| --- | --- | --- |
| ✓ | - | EDR Digital Archive |

## W CHOCKTOOT ST 2010

119 STANTON, DANIEL

| Target Street | Cross Street | Source |
| --- | --- | --- |
| - | ✓ | EDR Digital Archive |

## S 1ST AVE 2005

228 UNITED STATES POSTAL SERVICE

| Target Street | Cross Street | Source |
|---|---|---|
| - | ✓ | EDR Digital Archive |

## S 1ST AVE 2000

| | |
|---|---|
| 210 | CHILOQUIN ALTERNATIVE EDUCATION CENTER |
| 214 | GAILS WESTERN WEDDING BOUTIQUE & GIFT SHOP |
| 216 | CHILOQUIN BRANCH LIBRARY |

| Target Street | Cross Street | Source |
| --- | --- | --- |
| ✓ | - | EDR Digital Archive |

## W CHOCKTOOT ST 1995

220 PAULS AUTOMOTIVE SVC

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

I

# ENVIRONMENTAL REPORTS

# Phase I Environmental Site Assessment Report

**Former Markwardt Brothers Garage**
Chiloquin, Klamath County, Oregon

May 17, 2021

Prepared for:
City of Chiloquin, Oregon

Cardno
Shaping the Future

# Phase I Environmental Site Assessment Report

Prepared for: City of Chiloquin, Oregon

Project Name: **Phase I Environmental Site Assessment**
Former Markwardt Brothers Garage
Chiloquin, Klamath County, Oregon

Cardno Project #: CHILOQ100

Date: May 17, 2021

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Appendix E EDR Historical Topo Map Report
Appendix F EDR Sanborn Fire Insurance Maps
Appendix G EDR City Directories
Appendix H Asbestos and Lead-Based Paint Survey, May 17, 2021, Cardno, Inc.

# 1 Executive Summary

Cardno has completed a Phase I Environmental Site Assessment (ESA) of the Former Markwardt Brothers Garage property located in Chiloquin, Klamath County, Oregon (**Figure 1**). The Subject Property is currently developed with a single-story commercial building totaling approximately 8,500 square feet (sq. ft.) of concrete block and brick construction, some of which is coated with plaster/stucco.

According to the City of Chiloquin Public Works Department, the remaining on-site building was utilized as an auto repair/car dealership facility from approximately the 1930s – 1960s; second-hand store in the 1970s; and Juniper wood products facility in the 1980s. Until recently the area of the site to the north of the on-site building was occupied by a commercial building that recently collapsed with the exception of a vault that still remains. All that remains is a pile of rubble. This building was formerly occupied by the Chiloquin Mercantile. The area to the north of the rubble pile consist of vacant land once occupied by a rooming house.

The remaining building is currently vacant and the site is owned by and in the care of Klamath County. The subject site/property is located in downtown Chiloquin, Oregon, which will herein be referred to as "The Subject Site/Property" or "the Site". According to information on the Klamath County Tax Assessor records the Subject Property consists of two parcels (Parcel ID 3407-034DC-00500 and Parcel ID 3407-034DC-00400) of land totaling approximately 0.55 acres and is located at the northeast of the North 1st Avenue and West Chocktoot Street intersection (**Figure 2-3**).

Photos of the Subject Property and surrounding properties taken during the site visit are provided in **Appendix A.** A surrounding land use map is provided as **Figure 4**. This assessment was performed under and funded by the City of Chiloquin's Business of Oregon Brownfield Grant in general accordance with *40 CFR Part 312 Standards and Practices for All Appropriate Inquiries* and *ASTM Standard Practices E1527-13 for Environmental Site Assessments.*

This assessment was performed to satisfy the requirements of City of Chiloquin (Client) with respect to identifying potential environmental impairment and liabilities associated with the property due to contamination by hazardous substances, controlled substances, or petroleum products on or near the site. The City of Chiloquin is considering taking title to the Subject Property and is of the opinion that the property may have significant residential, commercial, or mixed-use development potential.

**This Phase I Environmental Site Assessment was completed in general accordance with ASTM Standard: E 1527-13 – Standard Practice for Environmental Site Assessments**. This report meets the general requirements for conducting all appropriate inquiry into the previous ownership, uses, and environmental conditions of a property, as specified in 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries. Furthermore, this work was conducted by or under the responsible charge of an environmental professional as defined in 40 CFR §312.10.

*ASTM Standard Practice E1527-13* defines a Recognized Environmental Condition (REC) as:

> "The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment, 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include *de Minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

*ASTM Standard Practice E1527-13* defines a Controlled Recognized Environmental Condition (CREC) as:

> "A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

*ASTM Standard Practice E1527-13* defines a Historical Recognized Environmental Condition (HREC) as:

> "A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls."

## 1.1 Findings and Conclusions

Cardno completed this Phase I ESA of the Subject Site in conformance with the scope and limitations of ASTM Standard E 1527-13. Any exceptions to or deletions from this practice are described in Section 2.0 of this report. The following RECs associated with the Subject Property were identified during this assessment:

| FINDINGS AND CONCLUSIONS SUMMARY | | | | | | |
|---|---|---|---|---|---|---|
| **Report Section** | | **Further Action?** | ***De minimis* Condition** | **REC and/or CREC** | **HREC** | **Description** |
| **4.0** | **User Provided Information** | No | No | No | No | |
| **5.1** | **Federal, State and Local Database Findings** | No | No | No | No | The former Texaco gas station to the west across North 1st Avenue is considered a HREC as it received a No Further Action designation from Oregon DEQ. (**HREC #1**). |
| **5.2** | **Additional Environmental Record Sources** | No | No | No | No | |
| **5.3** | **Local Environmental Record Sources** | No | No | No | No | |
| **5.3** | **Historical Records Sources** | Yes | No | Yes | No | A Printing facility (**REC #4**) and a Cleaning facility (**REC #5**) were identified in the 1931 Sanborn FIM. |
| **6.2** | **Hazardous Substance Use, Storage and Disposal** | Yes | No | Yes | No | Former use as an auto repair garage of unknown best management practices in disposal of hazardous substances (**REC #2**). |
| **6.3** | **Underground Storage Tanks** | Yes | No | Yes | No | Possible UST(s) and/or heating oil tank on the Subject Property (**REC #1 & 3**). |
| **6.4** | **Aboveground Storage Tanks** | No | No | No | No | |
| **6.5** | **Other Petroleum Products** | No | No | No | No | |
| **6.6** | **Polychlorinated Biphenyls (PCBs)** | Yes | No | Yes | No | Three in-ground hydraulic lifts were observed in the on-site building (**REC #2**). |
| **6.7** | **Unidentified Substance Containers** | No | No | No | No | |
| **6.8** | **Nonhazardous Solid Waste** | No | No | No | No | A pile of wood chips was observed within the on-site building. The former adjacent building to the North was demolished and the associated debris remains on-site. |
| **6.9** | **Wastewater** | No | No | No | No | |
| **6.10** | **Waste Pits, Ponds, and Lagoons** | No | No | No | No | |
| **6.11** | **Drains and Sumps** | No | No | No | No | |
| **6.12** | **Septic Systems** | No | No | No | No | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **6.13** | **Storm water Management System** | No | No | No | No | A stormwater drain was observed along W. Chocktoot St. |
| **6.14** | **Wells** | No | No | No | No | |
| **7.0** | **Subsurface Vapor Migration** | Yes | No | Yes | No | There is potential for vapor migration from the RECs below (**RECs #1-5**). |
| **8.0** | **Interviews** | No | No | No | No | |
| **9.1** | **Asbestos Containing Material** | Yes | No | No | No | Asbestos-containing materials have been identified in association with the remaining building. The potential for asbestos containing material in the debris form the collapsed building also exists. |
| **9.2** | **Lead-Based Paint** | Yes | No | No | No | Lead-based paints have been identified in association with the remaining building. The potential for lead-based paint in the debris from the collapsed building also exists. |

The RECs identified during this assessment are located on **Figure 6.** Phase II ESA investigations and/or other actions are recommended to fully characterize the Subject Property.

## On-Site REC

1. According to the 1931 Sanborn FIM, the building was used as an auto repair garage and an area with-in the on-site building, at the southwest corner, is labeled “Gas & Oil”. Further, during site reconnaissance, Cardno personnel identified a potential UST vent pipe attached to the west interior wall of the on-site building. Therefore, there is potential for a UST(s) to exist on the property and said tank may have impacted the soil, groundwater, and/or vapor at the Subject Property.

2. The remains of three in-ground hydraulic lifts and one oil-changing pit were observed in the building. According to the 1931 Sanborn Fire Insurance Map (FIM), the on-site building is labeled as being an auto repair/garage facility. Additionally, based on the age of the building, this time-frame predates the regulation of the storage/disposal of hazardous substances such as used oil and other non-regulated automobile chemicals. Based on the age and duration of use, the in-ground lifts and unknown chemical management and disposal practices associated with historic operations, site soil, groundwater, and/or vapor may have been impacted by historic site operations.

3. During site reconnaissance, Cardno identified a potential vent pipe in the interior of the building along the eastern wall. This could be an indication for a UST and/or heating oil tank to exist on the Subject Property. Based on the age and duration of the former use of the building, there is potential for a UST/heating oil tank on the property that may have impacted the soil, groundwater, and/or vapor at the Subject Property.

## Off-Site RECs

4. According to the 1931 Sanborn FIM, a Printing facility is located approximately 80 feet to the east. The length of operation for this facility is unknown. There is potential for a release from this facility.

5. According to the 1931 Sanborn FIM, a Cleaning facility is located approximately 120 feet to the southeast. The length of operation for this facility is unknown. There is a potential for a historic release from this facility.

## Off-site HRECs

1. According to Oregon Department of Environmental Quality (ODEQ) records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989 which predates UST registration. These tanks were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. The

new tanks were subsequently removed in 2017. Post-excavation confirmation sampling conducted in 2017 and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low. On July 22, 2019, ODEQ granted an NFA determination letter for the Chiloquin Texaco site. Based on the issuance of an NFA, and given the assumed ground waterflow direction away from the subject site, this facility is considered a historical REC. See Section 5.1 for further details.

**Asbestos-Containing Materials**

Asbestos containing materials (ACMs) were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.

Overall, given the state of the buildings, most of these materials were in good to fair condition. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor.

The following suspect building materials were not sampled and should be considered presumed asbestos containing materials (PACM):

- Exterior building debris from former attached north addition, totaling approximately 650 cubic yards (CY).

The building to the north was constructed around the same time as the remaining building, and the building debris appeared to have suspect materials. Therefore, the building debris/rubble should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

**Lead-Based Paint**

Lead-based paint (LBP) was identified on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

Most of the identified painted surfaces were in poor condition, with peeling and deterioration noted. As the building is not considered to be child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition.

A more detailed summary of the ACM and LBP inspection will be provided under a separate cover and included as **Appendix H**.

*Please note: This is a cursory summary of findings. The full report must be read in its entirety for a comprehensive understanding of the stated conclusions/recommendations*

# 2 Introduction

## 2.1 Purpose

The purpose of this Phase I ESA was to identify RECs in connection with the property at the time of the site reconnaissance. The scope of work for this Phase I ESA may also include certain potential environmental conditions beyond the scope of *ASTM Standard Practice E1527-13*. This report documents our assessment, conclusions, and recommendations.

## 2.2 Detailed Scope of Services

This Phase I ESA was conducted in general accordance with the *ASTM Standard Practice E1527-13*, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions or exceptions to *ASTM Standard Practice E1527-13* are noted below and detailed in the corresponding sections of this report. The scope of this assessment included following evaluations:

- Assessment of the physical characteristics of the property through a review of referenced sources such as available topographic maps and geologic, soils, and hydrogeological reports.
- Review of the Subject Property, adjoining properties, and surrounding area via referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports, and interviews.
- Site observation and interviews with knowledgeable persons regarding the current property usage and conditions including: use, treatment, storage, disposal, or generation of hazardous substances/waste, petroleum products, nonhazardous solid wastes, and wastewater.
- Assessment of the use and condition of adjoining and surrounding properties and their likely impact on the Subject Property from known or suspected releases of hazardous substances or petroleum products.
- Review of information in referenced environmental agency databases and local environmental records from within the specified minimum search distances from the property.
- Assessment of the potential for subsurface vapor encroachment.
- Asbestos and Lead-Based Paint (LBP) sampling to identify asbestos-containing building materials (ACM) or LBP.

No additional investigations, work, or other quantitative/qualitative testing was performed as part of this assessment that was not required by the *ASTM Standard Practices E1527-13*. An example of non-scope investigations includes, but are not limited to, the following: Radon, Lead in Drinking Water, Wetlands, Regulatory Compliance, Cultural and Historic Resources, Industrial Hygiene, Health and Safety, Geotechnical Evaluation, Sinkhole Evaluation, Ecological Resources, Endangered Species, Indoor Air Quality, Vapor Intrusion, Biological Agents, and Mold.

## 2.3 Significant Assumptions

While this report provides an overview of potential past and present environmental concerns, the environmental assessment is limited by the availability of information at the time of the assessment. It

is possible that unreported disposal of waste or illegal activities impairing the environmental status of the property may have occurred which could not be identified.

The findings and recommendations regarding environmental conditions that are presented in this report are based on the scope of work authorized by the Client. It should be noted, that no matter how exhaustive an assessment might be, there still exists the potential for unidentified environmental conditions above or below ground. Cardno also assumes that the Client and other interested parties will read this report in its entirety.

## 2.4 Limitations, Exceptions, Deviations and/or Data Gaps

Cardno has prepared this Phase I ESA report using reasonable efforts to identify RECs associated with hazardous substances or petroleum products at the Site. Findings contained within this report are based on information collected from observations made during the site reconnaissance on October 6, 2020 and reasonably ascertainable information obtained from public agencies and other referenced sources.

The *ASTM Standard Practice E1527-13* recognizes inherent limitations for Phase I ESAs, including, but not limited to:

- *Uncertainty Not Eliminated* – A Phase I ESA cannot completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with any property.
- *Not Exhaustive* – A Phase I ESA is not an exhaustive investigation of the property and environmental conditions on such property.
- *Past Uses of the Property* – Phase I requirements only require review of standard historical sources at five-year intervals. Therefore, past uses of property at less than five-year intervals may not be discovered.

Users of this report may refer to *ASTM Standard Practice E1527-13* for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews, and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Cardno makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable Federal, State, and local laws, regulations, and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations, conditions, and locations not investigated. Regardless of the findings stated in this report, Cardno is not responsible for consequences or conditions arising from facts not fully disclosed to Cardno during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Cardno's observations or other credible referenced sources reviewed during the assessment. Cardno shall not

be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Cardno makes no warranty, guarantee or certification regarding the quality, accuracy, or reliability of any prior report provided to Cardno and discussed in this Phase I ESA report. Cardno expressly disclaims any and all liability for any errors or omissions contained in any prior reports provided to Cardno and discussed in this Phase I ESA report.

Cardno used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records, and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, vegetation, paving, construction activities, stored materials, and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the *Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act* or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Cardno.

Cardno did not act as a professional title insurance or land surveyor firm as part of this investigation, and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

The Environmental Professional statement in Section 1.1 of this report does not "certify" the findings contained in this report and is not a legal opinion of such Environmental Professional. The statement is intended to document Cardno's opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the Environmental Professional were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in *ASTM Standard Practice E1527-13* and the scope of work for this assessment.

Per *ASTM Standard Practice E1527-13, Section 6, User Responsibilities*, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of recognized environmental conditions in connection with the property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for Landowner Liability Protections (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Cardno makes no representations or warranties regarding a User's qualification for protection under any Federal, State or local laws, rules or regulations.

In accordance with the *ASTM Standard Practice E1527-13*, this report is presumed to be valid for a six-month period. If the report is older than six months, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet *the ASTM Standard Practice E1527-13* and therefore, the entire report must be updated to reflect current conditions and property-specific information

No data gaps were identified during this Phase I investigation.

## 2.5 Special Terms and Conditions (User Reliance)

**This report is for the use and benefit of, and may be relied upon by the City of Chiloquin, as well as any of their affiliates, respective successors, and assigns, in connection with a commercial real estate transaction involving the property, and in accordance with the terms and conditions in place between Cardno and the Client for this project.** Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Cardno is at the sole risk and expense of such third party.

Cardno makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

# 3 Site Description

## 3.1 Location and Legal Description

The Subject Site is comprised of two tax parcels , currently owned by the Klamath County, located at the center of downtown Chiloquin, Oregon as shown on **Figures 2 and 3**. The Subject Property is bound by a commercial facility to the north, undeveloped/vacant land to the northeast, multi-commercial facility to the east, Sky Lakes Wilderness Adventures and Klamath Tribal Courts & Child Support Enforcement Office to the southeast, the Hirvi building to the south, a former gas station to the west, and the former Union Oil Bulk Plant property to the northwest. According to the Klamath County Tax Assessor's website, the Site encompasses two parcels totaling approximately 0.55 acres. The Subject Property currently is developed with a single-story commercial building of concrete block and brick facade construction. A second building which was once occupied by the Chiloquin Mercantile that collapsed and was demolished with the exception of a vault. The associated rubble remains on-site. The building is currently vacant and in the care of Klamath County.

## 3.2 Surrounding Area General Characteristics

The Subject Property is located in a mixed commercial and residential use area in downtown Chiloquin, Oregon. The surrounding areas to the north, east, west, and south are commercially developed. A surrounding land use map is included as **Figure 4**.

## 3.3 Current Use of the Property

At the time this report was developed, the Subject Property was vacant.

| | |
|---|---|
| Approximate Size of Property | 0.55 acre |
| General Topography of Property | The majority of the Subject Site is relatively flat, sloping slightly west/southwest towards the Williamson River. |
| Adjoining and/or Ingress/Egress Roads | The ingress points for the Subject Property observed via North 1st Avenue and West Chocktoot Street |
| Paved Areas | There are no paved areas on the Subject Property. |
| Unimproved Areas | There are no unimproved areas on the Subject Property. |
| Landscaped Areas | There are landscaped areas on the north portions of the Subject Property. |
| Surface Water | None |
| Potable Water Source | City of Chiloquin |
| Sanitary Sewer Utility | Available |
| Electrical Utility | Available |
| Natural Gas Utility | Available |
| Current Occupancy Status | Vacant |
| Unoccupied Buildings/Spaces/Structures | Vacant |
| Building Name or General Building Description | Former Markwardt Brothers garage and auto sales ; currently vacant. The remains of an adjacent collapsed/demolished building are located to the north |
| Number of Floors | One with partial mezzanine/loft |
| Approximate Total Square Footage of Structure(s) | Former Markwardt Bros. Garage: 8,500 sq. ft.<br>Vault: 150 sq. ft. |

| | |
|---|---|
| Construction Completion Year | Former Markwardt Bros. Garage: Pre-1931<br>Vault: Pre-1931 |

## 3.4 Current Uses of Adjoining Properties

| Direction from Property | Occupant(s) Name | Current Use | Potential REC(s) |
|---|---|---|---|
| South | Hirvi Building | Commercial | None |
| West | Former Texaco Gas Station | Commercial | HREC #1 |
| Northwest | Vacant | Undeveloped/Vacant | None |
| North | Vacant | Commercial | None |
| Northeast | Undeveloped/Vacant | Undeveloped/Vacant | None |
| East | Vacant Multi-Commercial facility | Vacant Commercial | None |
| Southeast | Sky Lakes Wilderness Adventures | Commercial | None |
| Southeast | Klamath Tribal Courts & Child Support Enforcement Office | Municipal | None |

# 4 User Provided Information

## 4.1 Title Records

A complete title search was not requested by the User (Client, City of Chiloquin) as part of this assessment, nor did the User provide title record information. However, according to information accessed from the Klamath County Tax Assessor, the parcels which make up the Subject Property is currently owned by Klamath County. Ownership of the property was acquired as a tax foreclosure action. No information indicated the exact date of property acquisition; however, Mr. Rick Vaughn stated Klamath County has been associated with the property for two years.

## 4.2 Environmental Liens or Activity and Use Limitations (AULs)

The User provided no information regarding property environmental liens or activity and use limitations (AULs). However, any liens and AULs associated with the property (if any) are anticipated to be addressed by the End User/Current Site Owner as part of the land/title transaction process.

## 4.3 Specialized Knowledge

The User provided no specialized knowledge regarding recognized environmental conditions associated with the property, other indicating that the site was used as an auto repair garage at one period of time, and that there may have been underground storage tanks on-site at one time.

## 4.4 Valuation Reduction for Environmental Issues

The User stated the building may have conducted fueling operations. However, no other information was provided regarding a significant valuation reduction for environmental issues associated with the property **(Appendix B)**.

## 4.5 Owner, Property Manager, and Occupant Information

The Subject Property is owned by Klamath County. A copy of the AAI interview questionnaire completed by Mr. Rick Vaughn, Tax Collector and Property Manager for Klamath County, is also included in **Appendix B**.

## 4.6 Reason for Performing Phase I

This assessment was performed to satisfy the requirements of the Client and other interested parties with respect to potential environmental impairment associated with the property due to contamination by hazardous substances, controlled substances, or petroleum products on or near the site. The Subject Site was selected by the City of Chiloquin as a potential location for future residential or mixed-use development, or other public use.

# 5 Records Review

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the property. Some records reviewed pertain not only to the property, but also to properties within a minimum search distance in order to assess the likelihood of potentially migrating hazardous substances or petroleum products. Unless stated otherwise, the minimum search distances used below were as specified in *ASTM Standard 1527-13*.

## 5.1 Standard Environmental Record Sources

The regulatory agency database radius report discussed in this section, provided by Environmental Database Resources, Inc. (EDR), was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the property. Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient to determine RECs, CRECs, HRECs, or de minimis conditions without conducting supplemental agency file reviews.

Cardno also reviewed the unlocated (orphan) site listings within the database report, cross-referencing available address information and facility names. Unlocated sites are listings that could not be plotted with confidence, but are potentially in the general area of the property, based on the partial street address, city, or zip code. Any unlocated sites within the minimum search distance from the property that was identified by Cardno through site reconnaissance and/or cross-referencing to mapped listings are included in the discussion within this section. The complete regulatory agency database report is provided in **Appendix C.** The following is a summary of the findings of the database review:

| Regulatory Database | Minimum Search Distance | Subject Property Listed? | No. of Sites Listed |
|---|---|---|---|
| Federal National Priority List (NPL) | 1 mile | No | 0 |
| Federal Delisted NPL (DNPL) | ½ mile | No | 0 |
| Superfund Enterprise Management Systems (SEMS) formerly the Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list | ½ mile | No | 0 |
| Federal Resource Conservation and Recovery Act (RCRA), Corrective Action facilities (RCRAC) | 1 mile | No | 0 |
| Federal RCRIS non-CORRACTS Treatment, Storage, and Disposal Facilities (RCRAT) | ½ mile | No | 0 |
| Federal RCRA Generators (RCRAGR10) | ¼ mile | No | 0 |
| Federal Engineering Institutional Control Sites (EC) | Property | No | 0 |
| Federal Emergency Response Notification System (ERNSOR) list | Property | No | 0 |
| Facility Registry System (FRSOR) | Property | No | 0 |
| Enforcement and Compliance History Information (ECHOR10) | Property | No | 0 |
| RCRA NonGen/NLR (RCRANGR10) | ¼ mile | No | 2 |

| Regulatory Database | Minimum Search Distance | Subject Property Listed? | No. of Sites Listed |
|---|---|---|---|
| Hazardous Materials Incident Reporting System (HMIRSR10) | Property | No | 0 |
| PCB Activity Database System (PADS) | Property | No | 0 |
| Alternative Fueling Stations (ALTFUELS) | ¼ mile | No | 0 |
| State Landfill or Solid Waste Disposal Sites (LFSWDS) | ½ mile | No | 0 |
| State Leaking Underground Storage Tanks (LST) | ½ mile | No | 3 |
| Tribal Leaking Underground Storage Tanks (LUSTR10) | ½ mile | No | 0 |
| Heating Oil Tank Incidents (HOT) | ½ mile | No | 0 |
| State Registered Underground Storage Tanks (UST) | ¼ mile | No | 3 |
| State Registered Aboveground Storage Tanks (AST) | ¼ mile | No | 2 |
| Tribal Registered Underground/Aboveground Storage Tanks (USTR10) | ¼ mile | No | 0 |
| State Institutional Control/Engineering Control Registry (ICEC) | Property | No | 0 |
| State Voluntary Cleanup Sites (VCP) | ½ mile | No | 3 |
| State Brownfield Sites (Brownfield) | ½ mile | No | 1 |
| State Drycleaners (Cleaners) | ½ mile | No | 0 |
| State Environmental Cleanup Site Information Database (ECSI) | ½ mile | No | 13 |
| HazMat/Incidents (SPILLS) | Property | No | 0 |
| Permitted Air Dischargers (AIRS) | Property | No | 0 |
| Environmental Response Program Spills (RSPILLS) | Property | No | 0 |

Thirty-six (36) database records were noted and located within a 1-mile radius of the target area by the database search. There are fewer sites than records as a particular site may appear on more than one environmental database. Several of the listed facilities may represent a REC/CREC/HREC environmental concern due to distance, anticipated direction of groundwater flow, and/or anticipated risk of contamination. Further details regarding the Subject Property and sites listed on the Environmental Database Resources database within 0.25 mile of the Subject Property are provided below.

- **Chiloquin Texaco (HREC #1)**

  Location: Northwest of the North 1st Avenue and West Chocktoot Street intersection
  Located approximately 45 feet west and topographically downgradient of the Subject Property

Summary: The Chiloquin Texaco property is listed in the EDR radius report as an Underground Storage Tank (UST), Leaking Underground Storage Tank (LUST), Facility Index System/Facility Registry System (FINDS), Brownfields, and EDR Historic auto repair (EDR HIST AUTO) database. Cardno reviewed Stantec's Independent Cleanup Pathway Final Report dated April 18, 2019 of the former service station. Oregon Department of Environmental Quality (ODEQ) records indicated that four USTs were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. This facility utilized one 2,000-gallon; one 4,000-gallon; and one 6,000-gallon USTs. ODEQ records indicate that the 2,000-gallon UST was converted from storing "super" grade gasoline to storing diesel in 2003.

In July 1994, two 550-gallon gasoline USTs, one 1,000-gallon gasoline UST, and one 2,000-gallon gasoline UST were removed from the ground. Approximately 40 cubic yards of concrete and impacted soil were removed from the tank excavation. Two soil samples were collected at the bottom of the tank excavation area and detected gasoline-range hydrocarbons ranging from 28 to 860 milligrams per kilogram (mg/kg). Approximately 360 gallons of groundwater was pumped from the tank excavation into 55-gallon drums from July 13-25, 1994. Four groundwater samples were collected from the purged groundwater and submitted for benzene, toluene, ethylbenzene, and total xylenes (BTEX). The maximum BTEX constituent concentration detected was total xylenes at 15 milligrams per liter (mg/l). The property owner reported a release from the USTs to ODEQ in July 1994.

In 2017, Stantec oversaw the removal of one 6,000-gallon gasoline UST and a 6,000-gallon compound UST comprised of a 4,000-gallon gasoline UST compartment and a 2,000-gallon diesel UST compartment. Subsequently, Stantec installed six soil borings adjacent to the tank excavation area to approximately 15 feet below ground surface (ft bgs) and converted the borings to temporary groundwater monitoring wells. Soil samples were collected from the tank excavation area and from the installed soil borings. The highest TPH-Gx concentrations were detected in the southern and western excavation sidewalls ranging from 28.6 mg/kg to 4,200 mg/kg. Soil samples analyzed from soil borings detected TPH-Gx in three soil samples with concentrations ranging from 33.9 mg/kg to 2,780 mg/kg. In boring GP-1, located in the North 1$^{st}$ Avenue right-of-way upgradient from the UST excavation, TPH-Gx was detected at 33.9 mg/kg at 1 ft bgs. In 2018, groundwater samples were collected and TPH-Gx concentrations were below 1 mg/l with the exception of one sample where TPH-Gx was detected at 14 mg/l that was located downgradient (northwest) of the tank excavation area. Post-excavation confirmation sampling conducted in 2017, and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low.

On July 22, 2019, ODEQ granted a no further action (NFA) determination letter for the Chiloquin Texaco. Based on the issuance of an NFA, and the documented groundwater flow direction to the northwest, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Chiloquin Standard Oil Bulk Plant**

Location: Chocktoot Street
Located approximately 315 feet southwest and topographically crossgradient of the Subject Property

Summary: The facility is listed in the following EDR database records: Environmental Cleanup Site Information System (ECSI), Voluntary Cleanup Program (VCP), Brownfields, and FINDS databases. According to the Environmental Database Resources database report, this site was reportedly occupied by a series of bulk plant operators from 1984 through 2005. ODEQ records show that four gasoline USTs and one diesel UST were removed from the site in 1991. In January 2006, 38 test pits were excavated to a depth of approximately 4 ft bgs to evaluate potential impacts to soil. Soil samples from each test pit were analyzed for gasoline, diesel, and heavy oil-range petroleum hydrocarbons, volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and total lead. Benzene was the only constituent found in soil at concentrations exceeding applicable risk screening levels.

In 1993, four groundwater monitoring wells were installed and in September 2008, three additional wells were installed. Groundwater sampling events occurred intermittently from 1993 to 2011. Groundwater analytical data indicated no constituents were detected in groundwater above applicable ODEQ human health risk screening criteria and impacts on ecological receptors are not significant. From these seven groundwater monitoring wells, potentiometric surface data indicate groundwater flow is towards the Williamson River to the northwest.

According to the EDR radius report, ODEQ records indicate that the proposed remedial action was conducted between August and October 2012. Based on confirmation sampling and since residual contamination does not exceed acceptable risk levels, ODEQ issued an NFA determination letter on January 28, 2013. Based on the NFA issuance and groundwater flow direction, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Modoc Motors**

Location: 0 Chocktoot Street
Located approximately 425 feet northwest and topographically downgradient of the Subject Property

Summary: The facility is listed in the EDR database as an ECSI facility. According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as a former auto repair facility in August 2010. However, no violations or releases have been reported for this facility. Based on the distance, lack of documented releases, and inferred groundwater flow direction, this facility does not appear to have impacted the Subject Property.

- **Chiloquin Cleaning & Pressing (REC #4)**

Location: Southwest corner of West Chocktoot Street and South 2nd Avenue
Located approximately 115 feet southeast and topographically upgradient of the Subject Property (See **Figure 5**)

Summary: The facility is listed in the EDR database as an ECSI and FINDs facility. According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as a former dry-cleaning facility in

November 2001. No information indicated the duration of operation; however, the age of this facility pre-dates chlorinated solvents and likely handled Stoddard solvents. Based on the distance and inferred groundwater flow direction, this facility may have impacted the Subject Property.

- **Telephone Utilities of Eastern Oregon**

  Location: Southwest corner of South 2nd Avenue and East Yahooskin Street
  Located approximately 120 feet northeast and topographically crossgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an UST facility. According to the Environmental Database Resources database report, this facility utilized one UST of unknown size and contents that was reportedly decommissioned. Cardno reviewed ODEQ's list of registered tanks but information for this facility was not ascertainable. Based on the lack of reported releases and inferred groundwater flow direction, this facility it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Chiloquin Agency Lake Fire District**

  Location: 156 South 2nd Avenue
  Located approximately 445 feet south and topographically crossgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an AST and Hazardous Substance Information Survey (HSIS) facility. According to the Environmental Database Resources database report, this facility utilizes one AST cylinder of nitrogen of unknown size. However, there are reported releases or violations. Based on the lack of reported releases, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Tony Reyes**

  Location: 123 South 3rd Street
  Located approximately 450 feet south and topographically crossgradient of the Subject Property

  Summary: The facility is listed in the EDR database as a Resource Conservation and Recovery Act – Non-Generator / No Longer Regulated (RCRA NonGen/NLR) facility. According to the Environmental Database Resources database report, this facility is no longer a RCRA generator and no other information is provided. Based on the lack of reported releases, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Klamath County School District**

  Location: 131 South 3rd Street
  Located approximately 615 feet southeast and topographically crossgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an AST and Hazardous Substance Information Survey (HSIS) facility. According to the Environmental Database Resources database report, this facility utilizes one AST of propane of unknown size. However, there are reported releases or violations. Based on the lack of reported releases, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Wampler Logging**

  Location: 212 North Klamath Avenue
  Located approximately 620 feet northwest and topographically downgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an ECSI and FINDs facility. According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as an active logging facility in November 2006. Additionally, Environmental Database Resources database reports this facility is no longer a RCRA generator and no other information is provided. Based on the lack of reported releases, this facility does not appear to have impacted the Subject Property. Based on the distance and inferred groundwater flow direction, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Chocktoot Street Petroleum Releases**

  Location: 0 Chocktoot Street (East of bridge)
  Located approximately 785 feet northwest and topographically downgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an ECSI facility. According to the Environmental Database Resources database report, ODEQ discovered petroleum contamination while sampling for a street project in August 2010. However, based on distance and assumed groundwater flow direction, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

- **Clyde's Fairway Market**

  Location: 323 Chocktoot Street
  Located approximately 1,170 feet northwest and topographically downgradient of the Subject Property

  Summary: The facility is listed in the EDR database as an ECSI facility. According to the Environmental Database Resources database report, ODEQ added this site to the ECSI database for tracking as a former service station facility in March 2004. However, based on distance and groundwater flow direction, it is not likely that this facility has impacted the environmental integrity of the Subject Property.

Additional sites were identified between 0.25 and ½ mile in the Environmental Database Resources database records search. However, based upon distance, intervening topographic gradient, proximity to the river, and regulatory information provided, these facilities are not considered potential environmental concerns with respect to the Subject Site. Based on a review of the database and windshield survey of the are there are no off-site RECs associated with the property.

## 5.2 Physical Setting Sources

An EDR Physical Setting Map report is included in **Appendix C.** According to this report, surficial soil at the Site is Lobert sandy loam. Additionally, the Site is underlain by Pliocene fluvial sedimentary deposits.

The Site is located on the Chiloquin, OR 2014 USGS 7.5-minute series topographic map. The topography at the Subject Property slopes gently to the west. Elevation at the Site is approximately 4,195 – 4,200 feet above mean sea level (MSL). Based on the mapped topography of the site, the

inferred primary direction of groundwater flow for the vicinity of the Subject Site is anticipated to be generally northwest towards the Williamson River. However, it is feasible that localized variations in ground water flow may exist, and a site-specific determination would be required to verify ground water flow direction.

## 5.3 Historical Records Sources

### 5.3.1 Aerial Photographs, Topographic Maps, and Sanborn Fire Insurance Maps

The objective of consulting historical sources is to determine the likelihood of past uses having led to recognized environmental conditions in connection with the Subject Site. A review was conducted of historical aerial photographs (**Appendix D)** and topographic maps (**Appendix E**) obtained from Environmental Database Resources.

Additionally, Sanborn Fire Insurance Maps (FIMs) have been produced since the late 1800s to provide information relative to fire hazards on insurable property. These maps often indicate locations of underground and aboveground gasoline tanks, storage facilities for flammable and hazardous chemicals, such as dry cleaners, paint shops, maintenance and garage facilities, as well as historical information on occupants of buildings, unavailable through other sources. Production of these maps typically was limited to the immediate vicinity of downtown urban areas. The detailed EDR Sanborn FIMs report is included in **Appendix F**. Findings of review of the historical Sanborn Fire Insurance Maps are chronologically summarized in the following table.

Findings of review of the historical aerial photos, topographic maps, and Sanborn FIMs are chronologically summarized in the following table:

| Period | Source(s) | Identified Historical Uses | | Comments |
|---|---|---|---|---|
| | | Subject Property | Surrounding Area | |
| 1931 | Sanborn FIM **(Figure 5)** | A **large auto repair/garage building** is depicted on the Subject Property. An area at the southwest corner within the auto repair building is labeled **"Gas & Oil".** A building addition is connected to the auto repair building to the north. Additionally, a building is depicted on the northern portion and labeled "Rooms" on the Subject Property. | A **Printing facility** is located to the east. A **Cleaning facility** is located to the southeast. The S.P.CO. Railroad is located west of the Subject Property. A Shell Oil Co. facility with one steel oil tank and oil warehouse is located to the west. An auto repair garage is located to the southwest. | The "Gas & Oil" (**REC #1**) and auto repair/garage (**REC #2**) at the on-site building are RECs. The Printing facility (**REC # 4**) and the Cleaning facility (**REC #5**) are considered RECs based on the review of the Sanborn Map. |
| 1953 | Aerial Photograph | A commercial building appears on the Subject Property. | Commercial buildings are to the south and west. Residential buildings are in the surrounding area. A railroad and river appear to the west. | No additional RECs noted. |

| Period | Source(s) | Identified Historical Uses | | Comments |
|---|---|---|---|---|
| | | Subject Property | Surrounding Area | |
| 1955 | Aerial Photograph | Blurry; similar to previous aerial photograph. | Blurry; similar to previous aerial photograph. | No additional RECs noted. |
| 1957 | Topographic Map | A building is depicted on the Subject Property | Several commercial buildings and residential dwellings appear in the surrounding area. A railroad and river appear to the west. A water tower is located to the east. | No additional RECs noted. |
| 1975 | Aerial Photograph | Similar to previous aerial photograph. | Several commercial buildings appear to have been removed to the southeast. A commercial building appears at the north adjoining property. | No additional RECs noted. |
| 1982 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the south. | No additional RECs noted |
| 1994 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the northeast and east. A **gas station** appears to the west. | The off-site gas station is a HREC (**HREC #1**) |
| 1998 | Topographic Map | Similar to previous aerial photograph. | More residential and commercial structures in the surrounding area. The Chiloquin Airfield is depicted to the west. | No additional RECs noted. |
| 2000 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears to the west. | No additional RECs noted. |
| 2006 | Aerial Photograph | Similar to previous aerial photograph. | Additional commercial development appears in the surrounding area. | No additional RECs noted. |
| 2009 | Aerial Photograph | Similar to previous aerial photograph. | Land clearing is visible to the northeast and south. | No additional RECs noted. |
| 2012 | Aerial Photograph | Similar to previous aerial photograph. | Similar to previous aerial photograph. | No additional RECs noted. |
| 2014 | Aerial Photograph | Similar to previous topographic map. The on-site structure is depicted. | Similar to previous topographic map. No structures are depicted on the map. | No additional RECs noted. |
| 2016 | Aerial Photograph | Similar to previous aerial photograph. | Similar to previous aerial photograph. | No additional RECs noted. |

Note: Text in **bold** are environmental concerns and are further discussed below.

**REC#1:** According to the 1931 Sanborn FIM (**Figure 5**), the building is an auto repair/garage and an area within the on-site building, at the southwest corner, is labeled “Gas & Oil”. Therefore, there is

potential for a UST(s) to exist on the property and said tank may have impacted the soil, groundwater, and/or vapor at the Subject Property.

**REC #2:** The on-site building operated as an auto repair facility from the 1930s to the 1960s. This time-frame predates the regulations of storage/disposal of hazardous substances such as used oil and other non-regulated automobile chemicals. Therefore, there is potential for release of hazardous materials in the soil and groundwater at the Subject Property.

**REC #4:** According to the 1931 Sanborn FIM (**Figure 5**), a Printing facility is located approximately 80 feet to the east. The length of operation for this facility is unknown. There is potential for a release from this facility.

**REC #5:** According to the 1931 Sanborn FIM (**Figure 5**), a Cleaning facility is located approximately 120 feet to the southeast. The length of operation for this facility is unknown. There is a potential for a release from this facility.

**HREC #1:** According to Oregon Department of Environmental Quality (ODEQ) records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989, predates UST registration, and were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. Soil and groundwater samples were collected from within and adjacent to the tank excavation area. Analytical results indicated BTEX constituent concentrations were above applicable risk screening levels. However, post-excavation confirmation sampling conducted in 2017 and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low. On July 22, 2019, ODEQ granted an NFA determination letter for the Chiloquin Texaco. Based on the issuance of an NFA, this facility is considered a historical REC. See Section 5.1 for further details.

### 5.3.2 City Directories

Historical City directories are generally referenced for study areas to help identify changes in land use based on the type of businesses that occupied the Subject Site and surrounding area. The type of business, such as automotive, dry cleaning, gasoline/service stations, etc. are indicative of the possible presence of hazardous substances or petroleum products. The detailed City Directories reports are included in **Appendix G**. No Historical City Directories were available for the Subject Property and surrounding area prior to 1992.

| Period | City Directory Identified Historical Uses | | Comments |
|---|---|---|---|
| | Subject Property | Surrounding Area | |
| 1992 | No Listing | E. Yahooskin St.: Residential<br>N. 1st Ave.: Residential | No RECs noted. |
| 1995 | No Listing | 119 E. Yahooskin St.: Chiloquin Head Start<br>220 W. Chocktoot St.: Paul's Automotive Service<br>119 W. Chocktoot St.: Beas Antiques & Refinishing<br>323 W. Chocktoot St.: Clyde's Fairway Market | No RECs noted. |
| 2000 | No Listing | 210 S. 1st Ave.: Chiloquin Alternative Education Center<br>216 S. 1st Ave.: Chiloquin Branch Library<br>219 N. 1st Ave.: Chiloquin Awareness Committee Hoops Activity Center | No RECs noted. |
| 2005 | No Listing | 228 S. 1st Ave.: United States Postal Service | No RECs noted. |

| Period | City Directory Identified Historical Uses | | Comments |
|---|---|---|---|
| | Subject Property | Surrounding Area | |
| 2010 | No Listing | S. 1st Ave.: Chiloquin Community Correction<br>414 W. Chocktoot St.: Oregon Reflections | No RECs noted. |
| 2014 | No Listing | 118 W. Chocktoot St.: Klamath Tribal Court<br>**201 W. Chocktoot St.: Chiloquin Shell & Food Mart**<br>323 W. Chocktoot St.: Clyde's Fairway Market<br>127 S. 1st Ave.: Chiloquin Agency Lake Fire District<br>228 S. 1st Ave.: United States Government<br>221 N. 1st Ave.: Klamath Water Commission<br>119 E. Yahooskin St.: Head Start Klamath Tribes | The Chiloquin Shell & Food Mart is a HREC (HREC #1). |
| 2017 | No Listing | 119 E. Yahooskin St.: Klamath Tribes<br>221 N. 1st Ave.: Klamath Water Commission<br>323 W. Chocktoot St.: Fairway Market<br>127 S. 1st Ave.: Chiloquin Agency Lake Fire District<br>140 S. 1st Ave.: Community Correction Chiloquin Office | No additional RECs noted |

Note: Text in **bold** are environmental concerns and are further discussed below.

**HREC #1:** According to Oregon Department of Environmental Quality (ODEQ) records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989, predates UST registration, and were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. Soil and groundwater samples were collected from within and adjacent to the tank excavation area. Analytical results indicated BTEX constituent concentrations were above applicable risk screening levels. However, post-excavation confirmation sampling conducted in 2017 and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low. On July 22, 2019, ODEQ granted an NFA determination letter for the Chiloquin Texaco. Based on the issuance of an NFA, this facility is considered a historical REC. See Section 5.1 for further details.

### 5.3.3 Prior Reports

No prior environmental reports were provided for review.

# 6 Site Reconnaissance

The following is a summary of visual and/or physical observations of the property on the day of the site visit. As stated, the site is comprised one on-site building, building debris remnants of a former building, a vault, and vacant/undeveloped portion of the Subject Property. Representative photographs can be found in **Appendix A**.

## 6.1 Methodology and Limiting Conditions

Mr. Keith Ziobron, P.E. and Mr. Ashton Smithwick with Cardno conducted the site reconnaissance on April 13 2021. The site reconnaissance consisted of visual and/or physical observations of the property and improvements; adjoining sites as viewed from the property; and, the surrounding area based on visual observations made during the trip to and from the property.

No other limiting conditions were identified during the site reconnaissance, and all exterior and interior areas were inspected.

## 6.2 Hazardous Substance Use, Storage, and Disposal

Cardno did not observe any substance use, storage, or disposal at the Subject Property. However, between approximately 1930 to the 1960s, this facility was occupied by an auto repair garage and this time-frame predates regulations set forth by state regulations of the disposal of hazardous substances and other non-regulated chemicals. Therefore, improper storage and disposal practices may have occurred on the Subject Property (**REC #2**).

## 6.3 Underground Storage Tanks (USTs)

Cardno did not observe any USTs. However, Cardno identified a vent pipe attached to the west exterior wall of the on-site building (**REC #1**). Cardno believes this to be a ventilation pipe for an UST(s) on the Subject Property (See Photo 9). According to the 1931 Sanborn FIM, there is an area within the southwest corner labeled “Gas & Oil” which could be an indication for an on-site UST(s). Further, Cardno observed a potential vent pipe along the interior of the east wall. This vent pipe is a potential indicator for an on-site buried UST or heating oil tank (**REC #3**).

## 6.4 Aboveground Storage Tanks (ASTs)

Cardno did not observe any ASTs.

## 6.5 Other Petroleum Products

Cardno did not observe any other petroleum products.

## 6.6 Polychlorinated Biphenyls (PCBs)

Cardno observed the remains of three in-ground hydraulic lifts and one oil-changing pit within the on-site building (**REC #2**). No other information was provided regarding the lifts or oil-changing pit. Based on its potential to contain PCBs and/or other hydraulic fluids, it has potential to impact the soil, groundwater, and/or vapor at the Subject Property.

## 6.7 Unidentified Substance Containers

Cardno did not observe any unidentified substance containers.

## 6.8 Nonhazardous Solid Waste

Cardno observed a significant pile of wood chips within the on-site building. According to Mr. Charlie Case of the City of Chiloquin Public Works Department, the on-site building was utilized prior to 2000 for manufacturing wooden boxes and wood smoking chips for grills/barbeques. The leftover wooden chips are the remains of the Juniper wood products business.

Additionally, significant quantities of building debris are located along the north exterior wall from the previous building attachment. These materials have potential for asbestos-containing materials (ACM) and lead-based paint (LBP). Cardno estimates there is approximately 650 cubic yards of building debris that remains on the Subject Property. See Photos 2 for a general representation of site conditions.

## 6.9 Wastewater

Cardno did not observe evidence of wastewater generation at the Subject Property.

## 6.10 Waste Pits, Ponds and Lagoons

Cardno did not observe any pits, ponds, or lagoons on the Subject Property.

## 6.11 Drains and Sumps

Cardno did not observe any drains or sumps on the Subject Property.

## 6.12 Septic Systems

Cardno did not observe evidence of septic tank usage on the Subject Property.

## 6.13 Storm Water Management System

Cardno observed a stormwater drain near the southeast corner of the on-site building on West Chocktoot Street.

## 6.14 Wells

Cardno did not observe any monitoring or active drinking wells on the Subject Property.

# 7 Subsurface Vapor Migration

Hazardous gases (vapor) from subsurface sources, such as contaminated soil or groundwater can migrate into residential, commercial, and industrial buildings with any foundation type, including basements, crawlspaces, or slabs. According to EPA guidance, three conditions must exist for hazardous vapors to reach the interior of buildings from the subsurface environment underneath or near a building. First, a source of hazardous vapors must be present in the soil or in groundwater underneath or near a building. Second, vapors must form and have a pathway along which to migrate toward the building. Third, entry routes must exist for the vapors to enter the building, and driving forces must exist to draw the vapors into the building.

Cardno considered the nature and extent of on-site sources of potential subsurface vapor migration by evaluating the current and historical usage of the property, the construction type and history, the physical setting, and the potential sources of subsurface vapor migration through the review of regulatory agency database information that was summarized in Section 5.0.

Based on the evaluation of the known or suspected releases of hazardous substances or petroleum products, their distance from the property, all potential pathways separated by roads with underground utilities, and soil type, et al, are not determined to impact the Subject Property with the exception of the following:

- **REC#1** – Former on-site automobile fueling;
- **REC #2** – On-site auto repair garage operations;
- **REC #3** – Potential on-site UST or heating oil tank
- **REC #4** – Off-site printing; and
- **REC #5** – Off-site dry-cleaning

# 8 Interviews

Cardno obtained completed interview questionnaire from the following persons:

- Rick Vaughn – Tax Collector and Property Manager for Klamath County
- Teresa R. Foreman – City Recorder for the City of Chiloquin
- Charlie Case – City of Chiloquin Public Works
- Fire Chief Michael Cook – Chiloquin Fire & Rescue

The completed All Appropriate Inquiry questionnaires, completed by Mr. Rick Vaughn and Ms. Teresa R. Foreman, are provided in **Appendix B.**

Ms. Teresa Foreman stated there is no purchase price for the property and is owned by Klamath County through tax foreclosure. Ms. Foreman indicated the on-site building was formerly utilized as a car dealership and garage. She also stated she assumes fuel and oil were stored and used as part of the business.

Mr. Rick Vaughn has been associated with the Subject Property for approximately two years. Mr. Vaughn states the property is approximately 0.51-acres and he believes the on-site building is approximately 12,316 sq. ft. He is not aware of the past uses of the property and that Klamath County obtained the property through tax foreclosure.

Mr. Charlie Case indicated the former Markwardt Brothers Garage was in operation from approximately the 1930s to the 1960s; a second-hand store in the 1970s; and Juniper wood products in the 1980s. Mr. Case stated the remains of the wood chips within the on-site building are from the Juniper wood products company that manufactured wooden boxes and wood chips for grills/barbeques. Mr. Case stated the southwest corner of the on-site building was utilized as a fueling stations between the 1930s to the 1950s. He also mentioned the roof of the former building attachment north of the on-site building had completely collapsed and the remainder of the building was demolished around 2015.

Cardno contacted Fire Chief Michael Cook of the Chiloquin Fire & Rescue Department in regards to any fires, spills, and/or incidents. Chief Cook stated there are no records on file for the Subject Property.

# 9 Additional Scope Items

During the course of this investigation, Cardno completed a comprehensive asbestos inspection on the former Markwardt Brothers Garage as depicted in **Figures 2-3**. A copy of this report will be provided under a separate cover and is included as **Appendix H.**

No other collection or investigation for the purpose of determining the possible presence of radon, mold, and/or any other potential contaminants requiring specialized testing procedures or sampling were conducted during this investigation. No assessment was conducted for the possible presence or absence of wetlands and no determination is offered with regard to the suitability of the subject site for development or for any other specific use or purpose.

Notwithstanding these limitations, the applicability of certain environmental issues which are not covered by ASTM standards are still germane to a wide array of properties. The following is a summary of non-scope issues identified at the property on the day of the site visit.

## 9.1 Asbestos Containing Materials

The inspection was performed on April 13, 2021 by Mr. Ashton Smithwick, an EPA accredited asbestos inspector, in accordance with the Asbestos Hazardous Emergency Response Act (AHERA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA).

In accordance with National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Subpart M, paragraph 145, all asbestos containing materials (ACMs) must be identified and removed prior to disturbance, either during a renovation or demolition. ACM is defined by OSHA as materials that contain greater than 1% asbestos fibers.

The asbestos inspection included a visual inspection of all accessible interior and exterior areas of the on-site buildings. This inspection was performed in accordance with AHERA and ASHARA protocols. Cardno made a reasonable attempt to visually identify all suspect materials or homogeneous areas (HAs). The interior and exterior of the buildings were identified, with the exception of the building roof due to the overall unsafe condition. Each HA was visually assessed for condition, friability, and quantity.

During the inspection, Cardno collected twenty-three (23) samples from eight (8) different HAs throughout interior/exterior of the on-site facility. All bulk samples were collected and stored in appropriate sample containers, labeled, and delivered to Eurofins EMLab P&K (EMLab) in Norcross, Georgia. AES analyzed the samples using Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116. This laboratory is accredited by the National Institute of Standards of Technology (NIST), and is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP).

### 9.1.1 Asbestos Results

The following materials were identified as containing greater than 1% ACM:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.

- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.

The following materials were not sampled and should be considered PACM:

- Exterior building debris from former attached north addition, totaling approximately 650 CY.

The north building addition was constructed around the same time as the main building, and the building debris appeared to have suspect materials. Therefore, the building debris should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

A more detailed summary of the inspection, identified ACM, and diagrams of samples and ACM locations will be provided under separate cover and is included as **Appendix H**. Photos of the identified ACM are included as **Appendix A**.

## 9.2 Lead-Based Paint

A limited lead-based paint (LBP) inspection was conducted on April 13, 2021 by Cardno's Mr. Ashton Smithwick. All testing was completed in accordance with applicable HUD, state, and federal regulations regarding LBP inspections. No previous LBP sampling information was provided by the client or the property owner.

The LBP testing was performed in general accordance with the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Painted surfaces were tested by collected paint chips of various painted surfaces throughout the interior and exterior of the buildings. LBP is defined by EPA as containing greater than 0.5% lead in painted materials.

During the inspection, Cardno collected 12 paint chips samples from unique locations throughout the interior/exterior of the on-site buildings.

The paint chip samples were collected into appropriate containers, labeled, and delivered to EMLab in Norcross, Georgia. The laboratory analyzed the samples using flame atomic absorption spectrometry (FAAS) via National Institute for Occupational Safety and Health (NIOSH) Method 7082. This laboratory is accredited by the NIST program, and is recognized under the NVLAP. A copy of the analytical results included the laboratory certification will be provided under a separate cover.

### 9.2.1 Lead-based Paint Results

In accordance with EPA, any paint containing 0.5% by weight of lead is categorized as containing lead. Based on the paint chip sampling results, the following painted surface tested positive for lead-based paint:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

A more detailed summary of the inspection, identified LBP, and diagrams of sample LBP locations will be provided under a separate cover and included as **Appendix H**. Photos of the identified LPB is included as **Appendix A**.

## 9.3 Additional Non-ASTM Considerations

No other collection or any investigation for the purpose of determining the possible presence of radon, mold, and/or any other potential contaminants requiring specialized testing procedures or sampling were conducted during this investigation. No assessment was conducted for the possible presence or absence of wetlands and no determination is offered with regard to the suitability of the subject site for development or for any other specific use or purpose.

# 10 Findings and Recommendations

Cardno has completed a Phase I Environmental Site Assessment (ESA) of the former Markwardt Brothers Garage property located northeast of the North 1st Avenue and West Chocktoot intersection in downtown Chiloquin, Klamath County, Oregon (**Figure 1**). The property boundary is shown on **Figure 2** and the tax parcel map is provided in **Figure 3**.

Photos of the Subject Property and surrounding properties taken during the site visit are provided in **Appendix A.** The surrounding land use map is provided as **Figure 4**. This assessment was performed under and funded by the City of Chiloquin Business of Oregon Brownfield Grant in general accordance with *40 CFR Part 312 Standards and Practices for All Appropriate Inquiries* and *ASTM Standard Practices E1527-13 for Environmental Site Assessments.*

This assessment was performed to satisfy the requirements of City of Chiloquin (Client) with respect to potential environmental impairment and liabilities associated with the property due to contamination by hazardous substances, controlled substances, or petroleum products on or near the site.

## 10.1 Findings

Phase I ESA investigations seek to identify known or suspect RECs, HRECs, CRECs, and de minimis conditions. De minimis conditions are those that are judged to not present a material risk of harm to health or the environment.

This assessment has identified several RECs in connection with the Subject Property, as shown in **Figure 5**, consisting of the following:

**On-Site REC**

1. According to the 1931 Sanborn FIM, the building was used as an auto repair garage and an area with-in the on-site building, at the southwest corner, is labeled “Gas & Oil”. Further, during site reconnaissance, Cardno personnel identified a potential UST vent pipe attached to the west interior wall of the on-site building. Therefore, there is potential for a UST(s) to exist on the property and said tank may have impacted the soil, groundwater, and/or vapor at the Subject Property.

2. The remains of three in-ground hydraulic lifts and one oil-changing pit were observed in the building. According to the 1931 Sanborn Fire Insurance Map (FIM), the on-site building is labeled as being an auto repair/garage facility. Additionally, based on the age of the building, this time-frame predates the regulation of the storage/disposal of hazardous substances such as used oil and other non-regulated automobile chemicals. Based on the age and duration of use, the in-ground lifts and unknown chemical management and disposal practices associated with historic operations, site soil, groundwater, and/or vapor may have been impacted by historic site operations.

3. During site reconnaissance, Cardno identified a potential vent pipe in the interior of the building along the eastern wall. This could be an indication for a UST and/or heating oil tank to exist on the Subject Property. Based on the age and duration of the former use of the building, there is potential for a UST/heating oil tank on the property that may have impacted the soil, groundwater, and/or vapor at the Subject Property.

**Off-Site RECs**

4. According to the 1931 Sanborn FIM, a Printing facility is located approximately 80 feet to the east. The length of operation for this facility is unknown. There is potential for a release from this facility.

5. According to the 1931 Sanborn FIM, a Cleaning facility is located approximately 120 feet to the southeast. The length of operation for this facility is unknown. There is a potential for a release from this facility.

**Off-site HRECs**

**1.** According to Oregon Department of Environmental Quality (ODEQ) records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989 which predates UST registration. These tanks were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. The new tanks were subsequently removed in 2017. Post-excavation confirmation sampling conducted in 2017 and soil sampling conducted in June 2018 indicate that the residual petroleum in soil are low. On July 22, 2019, ODEQ granted an NFA determination letter for the Chiloquin Texaco site. Based on the issuance of an NFA, and given the assumed ground waterflow direction away from the subject site, this facility is considered a historical REC.

**Asbestos-Containing Materials**

Asbestos containing materials (ACMs) were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.

Overall, given the state of the buildings, most of these materials were in good to fair condition. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor. A more detailed summary of the inspection, identified ACM, and diagram of samples and ACM location will be provided under a separate cover and included as **Appendix H**.

The following suspect building materials were not sampled and should be considered presumed asbestos containing materials (PACM):

- Exterior building debris from former attached north addition, totaling approximately 650 cubic yards (CY).

The building to the north was constructed around the same time as the remaining building, and the building debris appeared to have suspect materials. Therefore, the building debris/rubble should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

**Lead-Based Paint**

Lead-based paint (LBP) was identified on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.

- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

Most of the identified painted surfaces were in poor condition, with peeling and deterioration noted. As the buildings are not considered to be child-occupied facilities, the identified LBP can be left intact unless disturbed during renovation or demolition. A more detailed summary of the inspection, identified LBP, and diagram of samples and LBP locations will be provided under a separate cover and included as **Appendix H**.

## 10.2 Recommendations

Cardno makes the following recommendations:

- A geophysical survey should be performed in the vicinity of the vent pipes in order to determine if USTs are present. If they are found to be present, soil and ground war sampling should be performed adjacent to the tanks.
- Soil boings or test pits should install and soil samples collected and analyzed to evaluate impacts from the identified on and off-site RECs.
- A limited ground water monitoring network should be installed and sampled to evaluate potential ground water impacts and the potential for vapor intrusion.
- The exterior building debris/rubble should be considered PACM and treated as ACM until further sampling by a licensed asbestos inspector indicates otherwise. In addition to ACM testing, the debris should be characterized relate to the potential presence of toxic levels of lead. Finally, After the debris is removed, the need for additional site characterization should be considered.
- Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor. If the ACM is to be left in place, an Operation and Maintenance (O&M) plan should be implemented regarding the handling of the identified ACM.
- The identified lead-based paint appeared to be overall in fair to poor condition. The on-site building is not considered a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition. If the LBP is to be disturbed during renovation or demolition, depending on the extent of the disturbance, the LBP can be encapsulated, enclosed, or abated. All activity that disturbs LBP should be conducted by a licensed LBP renovation, repair, or paint (RRP) firm or a qualified LBP abatement contractor.

  If the property is to be renovated or demolished, due to the presence of lead on various painted surfaces, toxicity characteristic leachate procedure (TCLP) analysis for lead should be conducted on any construction debris to determine if the material should be characterized as a hazardous waste prior to disposal.

# 11 References

EDR. *Radius Report*, Order *Number 6438323.2s*

EDR. *Aerial Photo Decade Package*, Order Number *6438323.8*

EDR. *City Directories,* Order Number *6438323.5*

EDR. *Historical Topographic Maps*, Order Number *6438323.4*

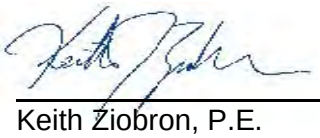
EDR. *Sanborn Fire Insurance Maps,* Order Number *6438323.3*

# 12 Qualifications/Signatures of Environmental Professional(s)

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. I certify that this report has been prepared in general accordance with 40 CFR Part 312 and ASTM E 1527-13 Standard Practice for Environmental Site Assessments.

I further certify that, in my professional judgment, this report meets the requirements of 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries. I have the specific qualifications based on training, experience and registration to perform and/or assist in the assessment of a property of the nature, history and setting of the Subject Property.

for Cardno



Keith Ziobron, P.E.
Branch Manager

Date: May 17, 2020

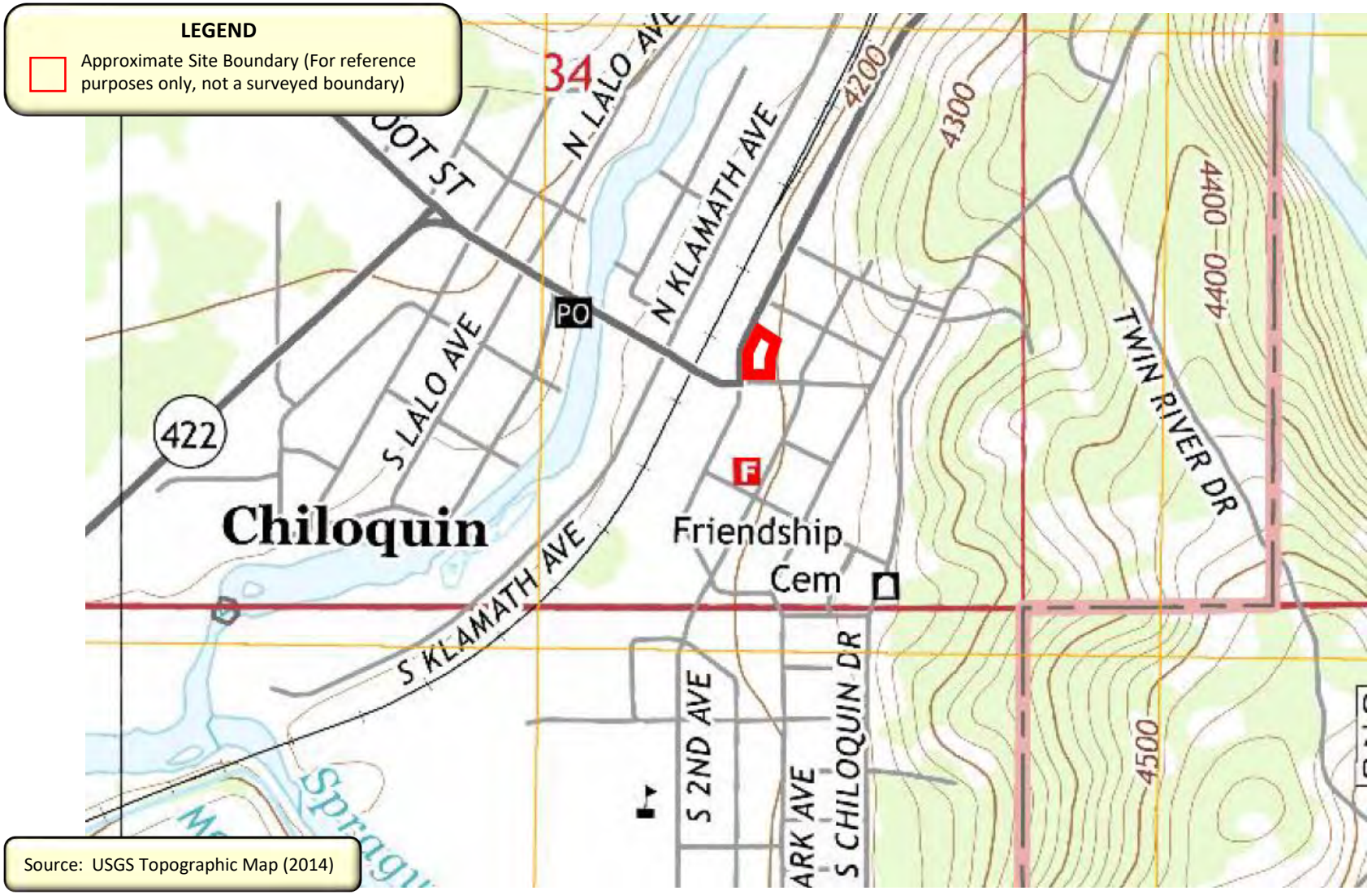
I declare this "*Phase I Environmental Site Assessment*" Report meets or exceeds Cardno's standards for editorial content, technical accuracy, and quality assurance verification. All data and calculations presented herein have been checked for accuracy and the basis for all conclusions and recommendations have been described.

for Cardno

W. Ashton Smithwick
Geologist I

Date: May 17, 2021

# Figures

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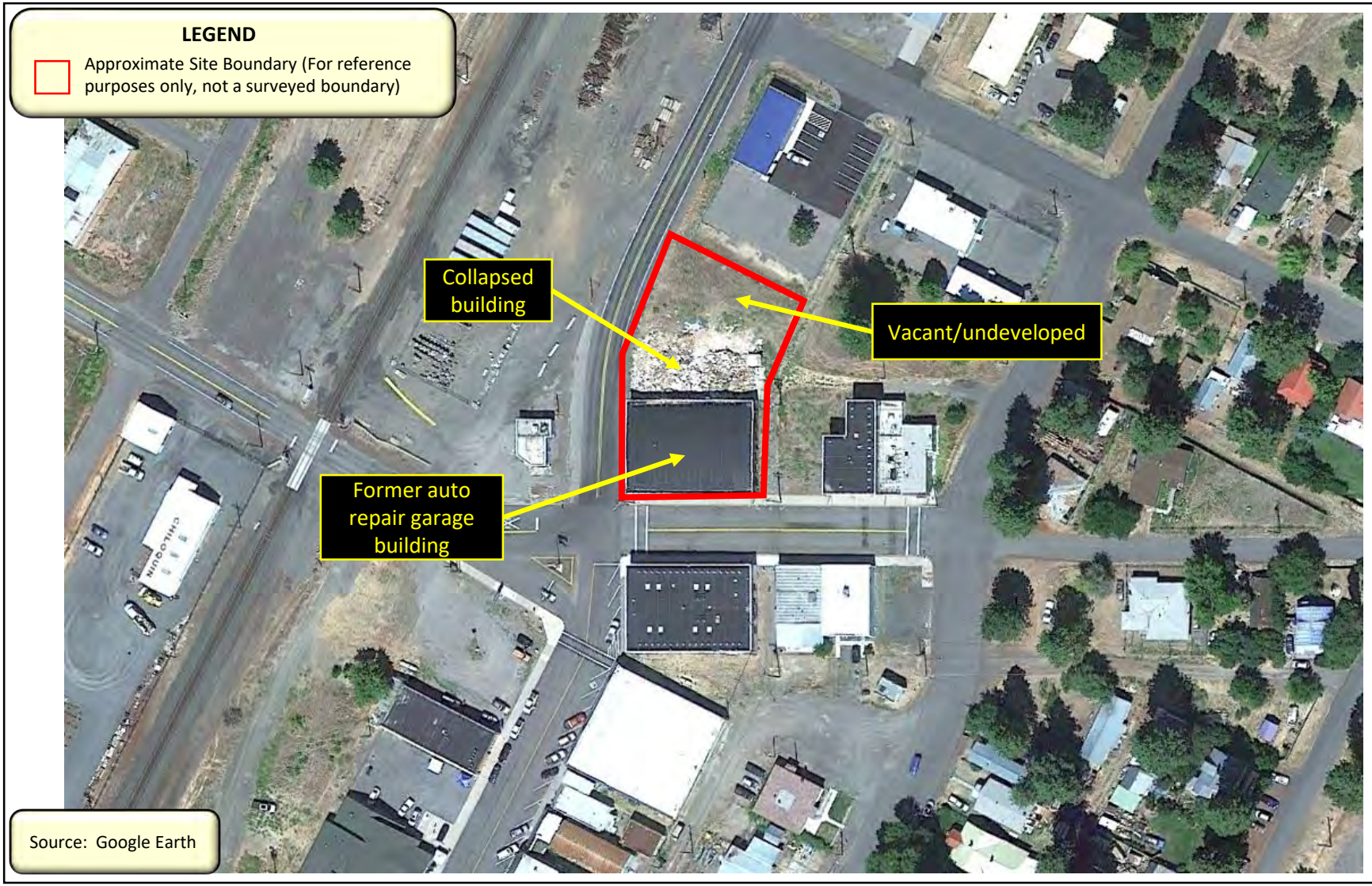
**Phase I ESA**
**Former Markwardt Brothers**
**Chiloquin, Klamath County, Oregon**
**Harney County**
**EPA Cooperative Agreement: #BF-01J86601-0**

# Figure 1
# USGS/Site Vicinity Map

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**Cardno Project # CHILOQ100**

**Figure 2**
**Site Boundary Map**

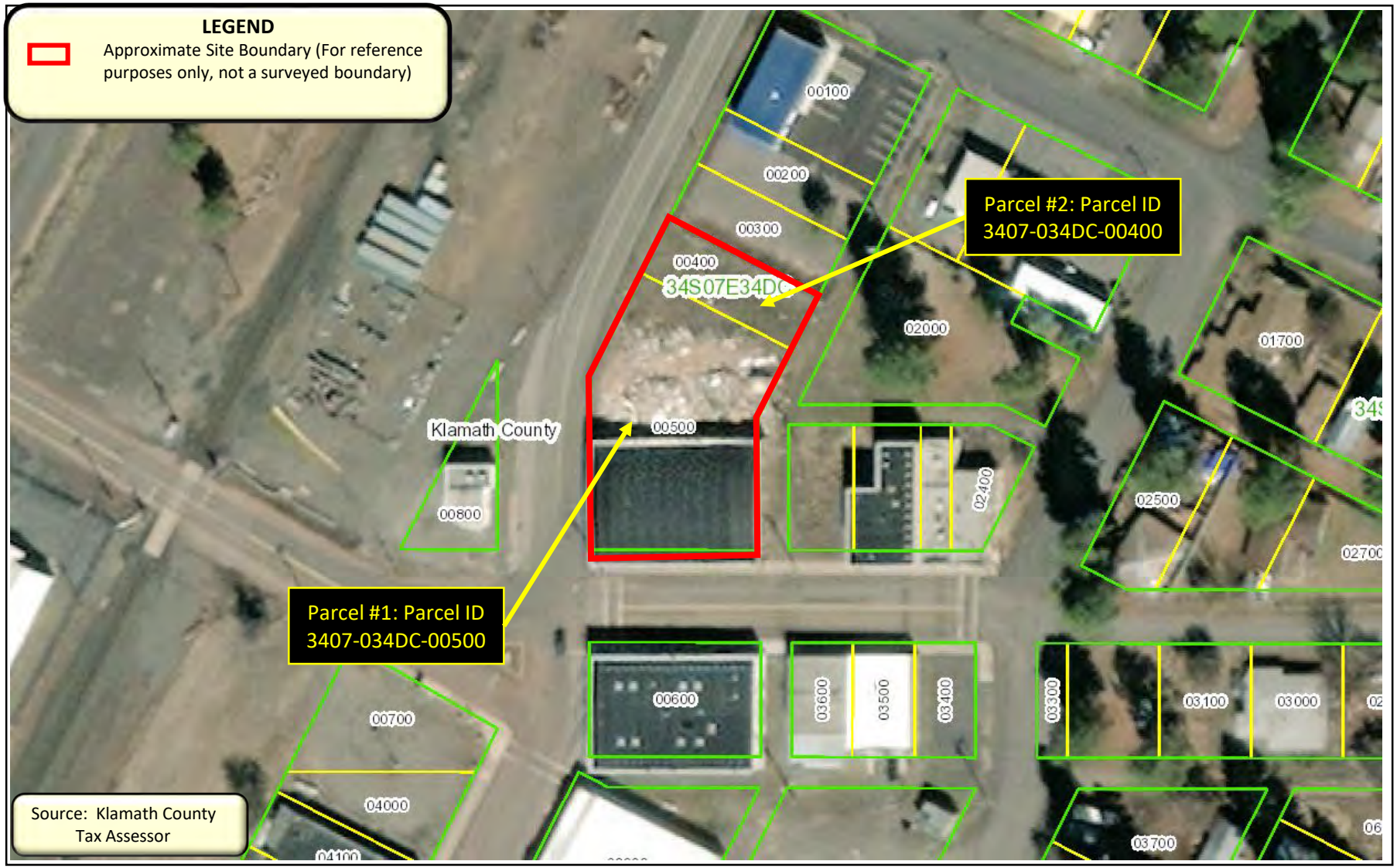


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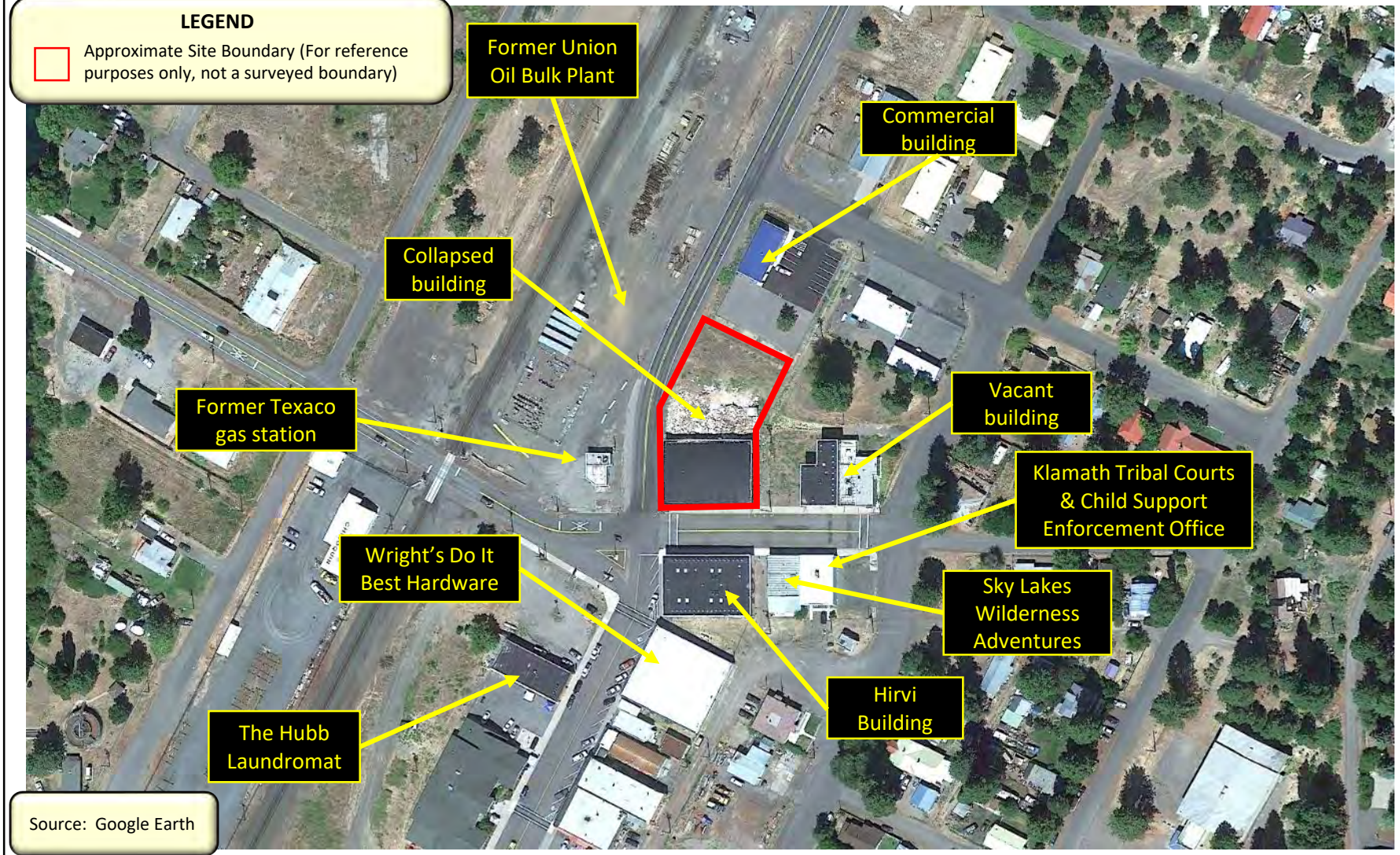
**Figure 3**
**Tax Map**

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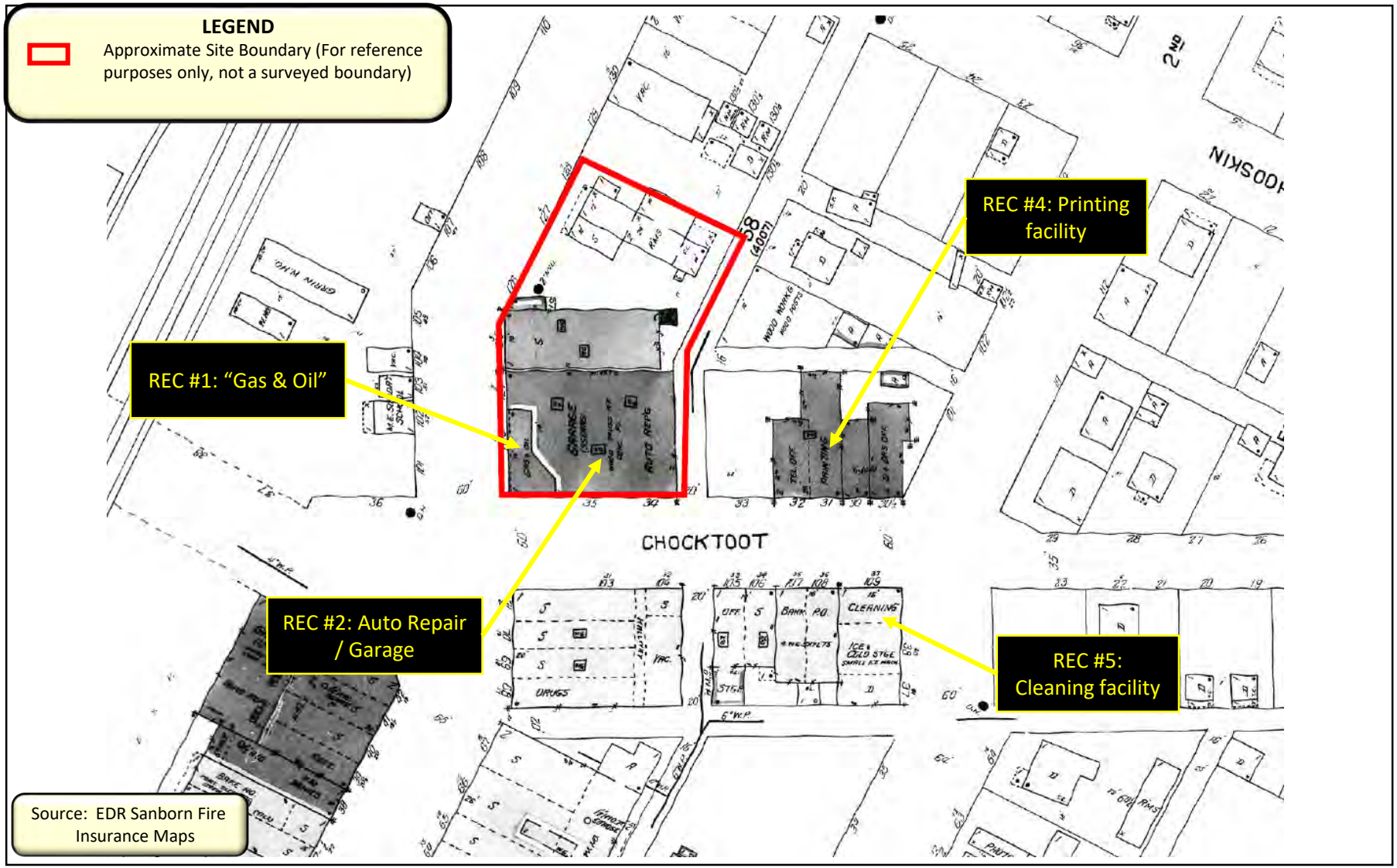
# Figure 4
# Surrounding Land Use Map

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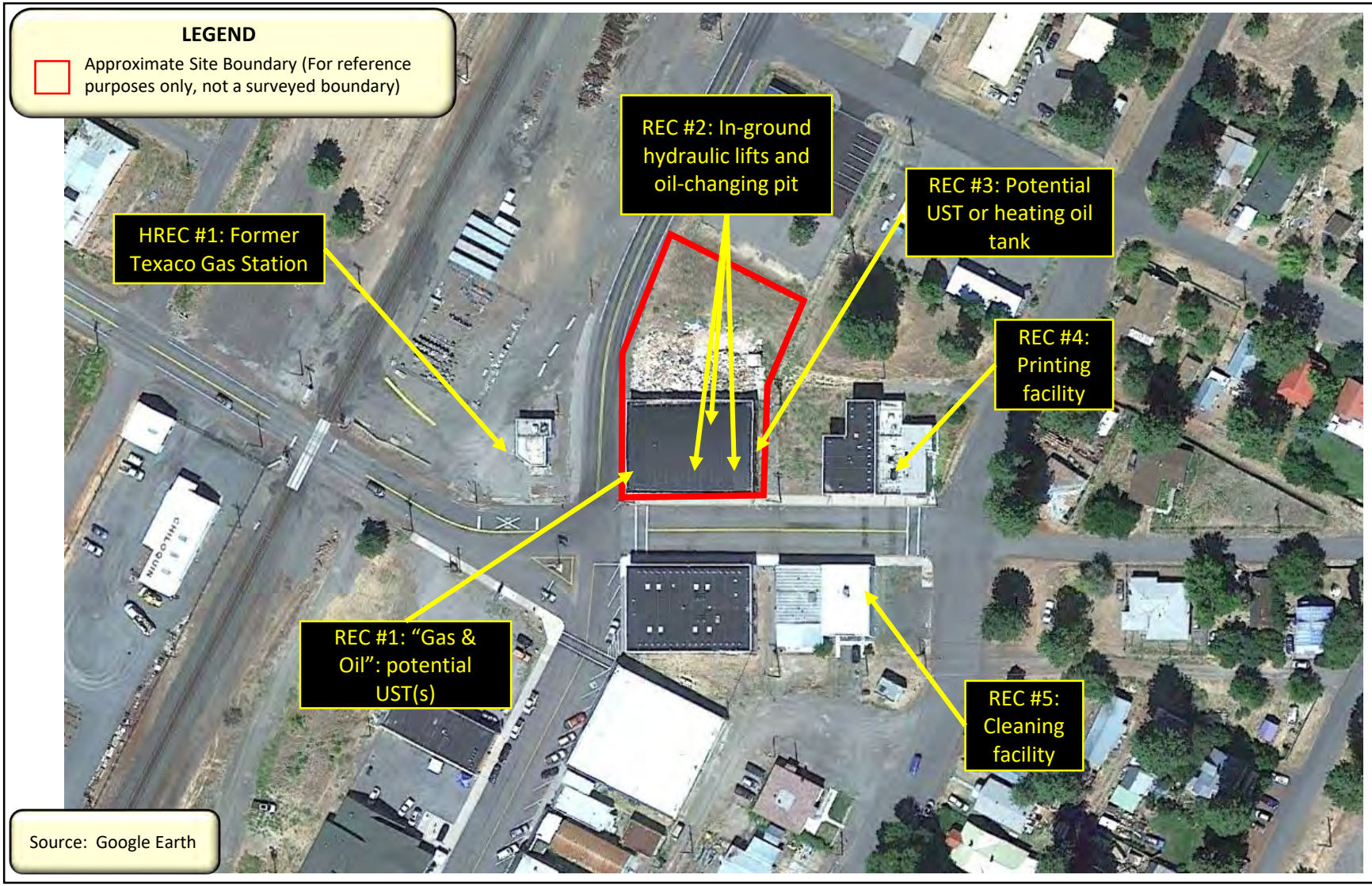
**Phase I ESA**
**Former Markwardt Brothers**
**Chiloquin, Klamath County, Oregon**
**Harney County**
**EPA Cooperative Agreement: #BF-01J86601-0**

# Figure 5
# 1931 Sanborn FIM Map

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**Phase I ESA**
**Former Markwardt Brothers**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

# Figure 6
# REC Location Map

# Asbestos & Lead-Based Paint Survey

Former Markwardt Brothers Garage
North 1st Avenue and West Chocktoot Street
Chiloquin, Klamath County, Oregon

May 17, 2021

Prepared for:
City of Chiloquin, Oregon

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# Asbestos & Lead-Based Paint Survey Report

Prepared for: Ms. Teresa R. Foreman
City Recorder for the City of Chiloquin
City of Chiloquin, Oregon
127 South 1st Avenue
Chiloquin, Oregon 97624

Project Name: **Asbestos & Lead-Based Paint Survey**
Former Markwardt Brothers Garage
North 1st Avenue and West Chocktoot Street
Chiloquin, Klamath County, Oregon

Cardno Project #: CHILOQ100

Date: May 17, 2021

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B Laboratory Analytical Reports

C Inspector Accreditations

# Executive Summary

Cardno has completed a comprehensive Asbestos and limited Lead-Based Paint survey of the former Markwardt Brothers Garage located northeast of the North 1st Avenue and West Chocktoot Street intersection in Chiloquin, Oregon. The study property is herein referred to as "the Subject Site/Property" or "the Site" (as generally depicted in **Figures 1 and 2**) and consists of approximately 0.55-acres developed with one commercial structure. The Subject Property and its on-site structure are currently owned by Klamath County. The Subject Site is currently being evaluated for redevelopment.

The Subject Property is located in the downtown area of Chiloquin, Oregon. Historically, the surrounding area has been commercially and residentially developed since the 1920s. The Subject Property is bordered to the north by a commercial property; to the east and south by additional commercial properties; and to the west by a former gas station.

This assessment was performed to satisfy the requirements of the Client (City of Chiloquin) and their assigns (including the prospective purchaser) with respect to potential environmental impairment and liabilities associated with the property due to contamination by hazardous substances. This assessment was completed under the City of Chiloquin's Business of Oregon Brownfield Grant for the site.

In summary, the results of this survey are stated below.

**Asbestos:** Comparison of the laboratory analytical results to the Occupational Safety and Health Administration's (OSHA) for building materials containing >1% asbestos revealed:

- Interior white skim coat on plaster surfacing, totaling approximately 3,700 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 1000 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 50linear feet (LF), located on interior west wall windows.

For the purposes of demolition, the ACMs identified during this inspection are considered RACM (regulated ACM). RACM consists of friable ACM, Category I non-friable ACM that has become friable, Category I non-friable ACM that is subjected to sanding, grinding, cutting or abrading, or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The following suspect building materials were not sampled and should be considered presumed asbestos containing materials (PACM):

- Exterior building debris from former attached north addition, totaling approximately 650 cubic yards (CY).

The north building addition was constructed around the same time as the main building, and the building debris appeared to have suspect materials. Therefore, the building debris should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

**Lead-Based Paint:** Comparison of the laboratory analytical results to the Environmental Protection Agency (EPA) and Housing and Urban Development (HUD) for paint chips identified the following materials as lead-based paint:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

Based on the results of the Phase II ESA, Cardno recommends:

- The identified ACMs appears to be in good to fair condition. Prior to any renovation or demolition that may cause the ACM to become friable, these materials should be removed or abated by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations. If the ACM is to be left in place, an Operation and Maintenance (O&M) plan should be implemented regarding the handling of the identified ACM.
- The exterior building debris should be considered PACM and treated as ACM until further sampling by a licensed asbestos inspector indicates otherwise.
- The identified lead-based paint appeared to be overall in good to fair condition. The building is not considered a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition.
- For the purposes of demolition or renovation, if the paint is well adhered to the substrate and will not be cut, sanded, or abraded by mechanical means for sizing than it can be disposed of along with the construction and demolition debris. Loose and flaking lead-containing paint should be removed and containerized as a waste stream for disposal purposes. Once all of the paint materials are collected for disposal, a waste profile sample should be collected to determine if the waste is hazardous. Hazardous materials must be properly containerized, transported, and disposed of in accordance with Resource Conservation Recovery Act (RCRA) standards and regulations.

# 1 Introduction

## 1.1 Purpose

This assessment was completed under the City of Chiloquin's Business of Oregon Brownfield Grant for the subject property. The Client (City of Chiloquin) intends to either renovate or demolish the building.

## 1.2 Site History

The Subject Site historically was identified as the Markwardt Brothers Garage from the 1930s to the 1960s; a second-hand store in the 1970s; and Juniper wood products processing facility in the 1980s. According to the Public Works Department, the building has been vacant since the late 1990s. A building attachment formerly occupied the property north of the on-site building. However, the roof of the former building collapsed and the remainder of the building was demolished in 2015. The northern portion of the property was developed with one structure in the 1930s but was razed and vacant since.

## 1.3 Property Descriptions

The Subject Site is comprised of one parcel, currently owned by the Klamath County, located in the center of downtown Chiloquin, Oregon as shown on **Figures 2 and 3**. The Subject Property is bound by an auto repair facility to the north, undeveloped/vacant land to the northeast, multi-commercial facilities to the east, Sky Lakes Wilderness Adventures and Klamath Tribal Courts & Child Support Enforcement Office to the southeast, the Hirvi building to the south, a former gas station to the west, and the former Union Oil Bulk Plant property to the northwest.

According to the Klamath County Tax Assessor's website, the Site encompasses two parcels totaling approximately 0.55 acres. The Subject Property currently is developed with a single-story commercial building of concrete block and brick facade construction. A former building addition has been previously demolished and the remains of the building materials remain with the exception of a vault. The building is currently vacant and in the care of Klamath County.

## 1.4 Building Description

During the asbestos and LBP survey, Cardno noted the construction materials utilized for the interior/exterior of the on-site building. The exterior walls of the building were concrete masonry units (CMU) with brick façade and the roof appears to be newly renovated thick plastic over wooden trusses.

The interior walls throughout the building consisted of a combination of CMU and CMU overlain with drywall and/or plaster/stucco. Throughout the interior of the building the floor consists of bare concrete slab. No basement or crawlspace was observed during the survey.

## 1.5 Previous Assessments

Cardno is also completing a Phase I ESA in concert with this asbestos and lead-based paint survey. This Phase I ESA investigation identified a potential UST(s), auto repair/garage uses, potential mishandling/disposal of chemicals on the Subject Property as well as a Recognized Environmental conditions (RECs) associated with former off-site printing and dry-cleaning facilities. The Phase I ESA report will be submitted to the client under separate cover. However, no prior environmental reports were provided for review.

## 1.6 Limitations / Exceptions of Assessment

A comprehensive asbestos and limited LBP survey was completed by Cardno to identify potential ACM and LBP. Any suspect building materials not sampled and analyzed for asbestos during this investigation should be treated as presumed asbestos containing materials (PACM) until further sampling by a certified inspector indicates otherwise. Any suspect LBP not sampled and analyzed for lead during this investigation should be treated as LBP until further sampling by a certified inspector indicates otherwise. Further, it should be noted that the collection and analysis of roofing materials was not included in the scope of this project.

No other warranty is expressed or implied.

## 1.7 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by the entity(s) identified in the Executive Summary of this report as the Client, as well as any of its affiliates and their respective successors and assigns, in connection with a commercial real estate transaction involving the property, and in accordance with the terms and conditions in place between Cardno and the Client for this project. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Cardno is at the sole risk and expense of such third party.

Cardno makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

# 2 Sampling Activities

## 2.1 Asbestos Survey

A comprehensive asbestos survey was conducted on April 13, 2021 by Cardno's Mr. Ashton Smithwick, a licensed and accredited asbestos inspector, in accordance with the Asbestos Hazardous Emergency Response Act (AHERA) and Asbestos School Hazard Abatement Reauthorization Act (ASHARA). Mr. Smithwick was assisted by Cardno's Keith Ziobron, P.E. Mr. Smithwick's accreditation certificate is included as **Appendix C.**

In accordance with National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 61-Subpart M, paragraph 145, all asbestos containing materials (ACMs) must be identified and removed prior to disturbance, either during a renovation or demolition. ACM is defined by OSHA as materials that contain greater than 1% asbestos fibers.

The ACM survey included a visual survey of all accessible interior/exterior areas of the on-site building. Destructive testing was performed to verify the existence and extent of ACM in all building materials. The roof and exterior were also included during this survey. This survey was performed in accordance with AHERA and NESHAP protocols.

All suspect materials, or homogeneous areas (HAs) were visually identified. Each HA was visually assess for condition, friability, and quantity. All identified ACMs were classified by their category as denoted by EPA NESHAP and OSHA. These categories include:

- Thermal System Insulation (TSI) – insulation typically over pipes, fittings, elbows, boilers, tanks, ducts, etc.
- Surfacing material – material that is sprayed, troweled-on, or otherwise applied to surfaces.
- Miscellaneous – All other ACMs
- Friable – ACM that can be crumbled pulverized or reduced to a powder by hand pressure when dry
- Category I Non-Friable – ACM consisting of packing material, gaskets, resilient floor covering, and asphalt roofing products
- Category II Non-Friable – All ACM that is not listed in Category I Non-Friable ACM
- Presumed Asbestos Containing Material (PACM) – all potential ACM not analytically analyzed

Each HA was visually assessed for condition, friability, and quantity. A summary of the bulk samples collected is included as **Table 1** and sample locations are depicted on **Figure 3.**

During the survey, Cardno collected 23 samples from the former Markwardt Brothers Garage building. All bulk samples were collected and stored in appropriate sample containers, labeled, and delivered to Eurofins EMLab P&K (EMLab) in Norcross, Georgia. EMLab analyzed all samples using Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116. This laboratory is accredited by the National Institute of Standards of Technology (NIST), and is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP). A copy of the analytical results including the laboratory certification is included in **Attachment B.**

## 2.2 Limited Lead-Based Paint Survey

A limited LBP survey was conducted on April 13, 2020 by Cardno's Mr. Ashton Smithwick, an EPA-accredited LBP inspector. Mr. Smithwick was assisted by Cardno's Keith Ziobron, P.E. All testing was completed in accordance with applicable HUD, state, and federal regulations regarding LBP surveys. No previous LBP sampling information was provided by the client or the property owner.

The LBP testing was performed in accordance with the survey protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Painted surfaces were tested by collected paint chips of various painted surfaces throughout the interior and exterior of the building. The roof and exterior were not included during this survey. LBP is defined by EPA as containing greater than 0.5% lead in painted materials.

During the survey, Cardno collected 12 paint chips samples from unique locations throughout the interior and exterior of the on-site building. A summary of all paint chip samples collected is included as **Table 2** and sample locations are depicted on **Figure 3.**

The paint chip samples were transferred into appropriate containers, labeled, and shipped to EMLab in Norcross, Georgia. The laboratory analyzed the samples using flame atomic absorption spectrometry (FAAS) via National Institute for Occupational Safety and Health (NIOSH) Method 7082. This laboratory is accredited by the NIST program, and is recognized under the NVLAP. A copy of the analytical results included the laboratory certification is included in **Appendix B.**

# 3 Analytical Results

## 3.1 Asbestos-Containing Materials

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-site building.
- Interior white texture and joint compound on drywall, totaling approximately 800 SF, located within the western most portions of the on-site building.
- Interior white caulk, totaling approximately 30 linear feet (LF), located on interior west wall windows.

The interior skim coat identified totaled approximately 3,600 SF and was located within the western most portions of the on-site building. This material was in fair condition and considered a friable surfacing material.

The texture and joint compound on drywall totaled approximately 800 SF and was located in Rooms 2 and 3. This material was in fair condition and considered a miscellaneous Category I non-friable material.

The interior white caulk totaled approximately 30 LF and was located in Room 3. This material was in good condition and considered a miscellaneous Category II non-friable material.

The following materials were not sampled and should be considered PACM:

- Exterior building debris from former attached north addition, totaling approximately 650 CY.

The north building addition was constructed around the same time as the main building, and the building debris appeared to have suspect materials. Therefore, the building debris should be considered asbestos containing until sampling by a licensed asbestos inspector indicates otherwise.

Photos of some of the identified ACMs are included as **Attachment A**.

The laboratory report is included as **Attachment B** with results summarized in **Table 1**.

## 3.2 Lead-Based Paint

In accordance with EPA, any paint containing 0.5% by weight of lead is categorized as containing lead. Based on the paint chip sampling results, the following painted surface tested positive for lead-based paint:

- Red paint on CMU on the south exterior wall, totaling approximately 3,600 SF.
- Tan/gray paint on wood on the Room 3 ceiling, totaling approximately 1,200 SF.

Photos of some of the identified LBPs are included as **Attachment A**. The laboratory report is included as **Appendix B** with results summarized in **Table 2**.

# 4 Conclusions/Recommendations

Based on the results of this Phase II ESA:

- The identified ACMs appears to be in good to fair condition. Prior to any renovation or demolition that may cause the ACM to become friable, these materials should be removed or abated by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations. If the ACM is to be left in place, an O&M plan should be implemented regarding the handling of the identified ACM.
- The exterior building debris should be considered PACM and treated as ACM until further sampling by a licensed asbestos inspector indicates otherwise.
- The identified lead-based paint appeared to be overall in good to fair condition. The building is not considered a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition.
- For the purposes of demolition or renovation, if the paint is well adhered to the substrate and will not be cut, sanded, or abraded by mechanical means for sizing than it can be disposed of along with the construction and demolition debris. Loose and flaking lead-containing paint should be removed and containerized as a waste stream for disposal purposes. Once all of the paint materials are collected for disposal, a waste profile sample should be collected to determine if the waste is hazardous. Hazardous materials must be properly containerized, transported, and disposed of in accordance with RCRA standards and regulations.

# Figures

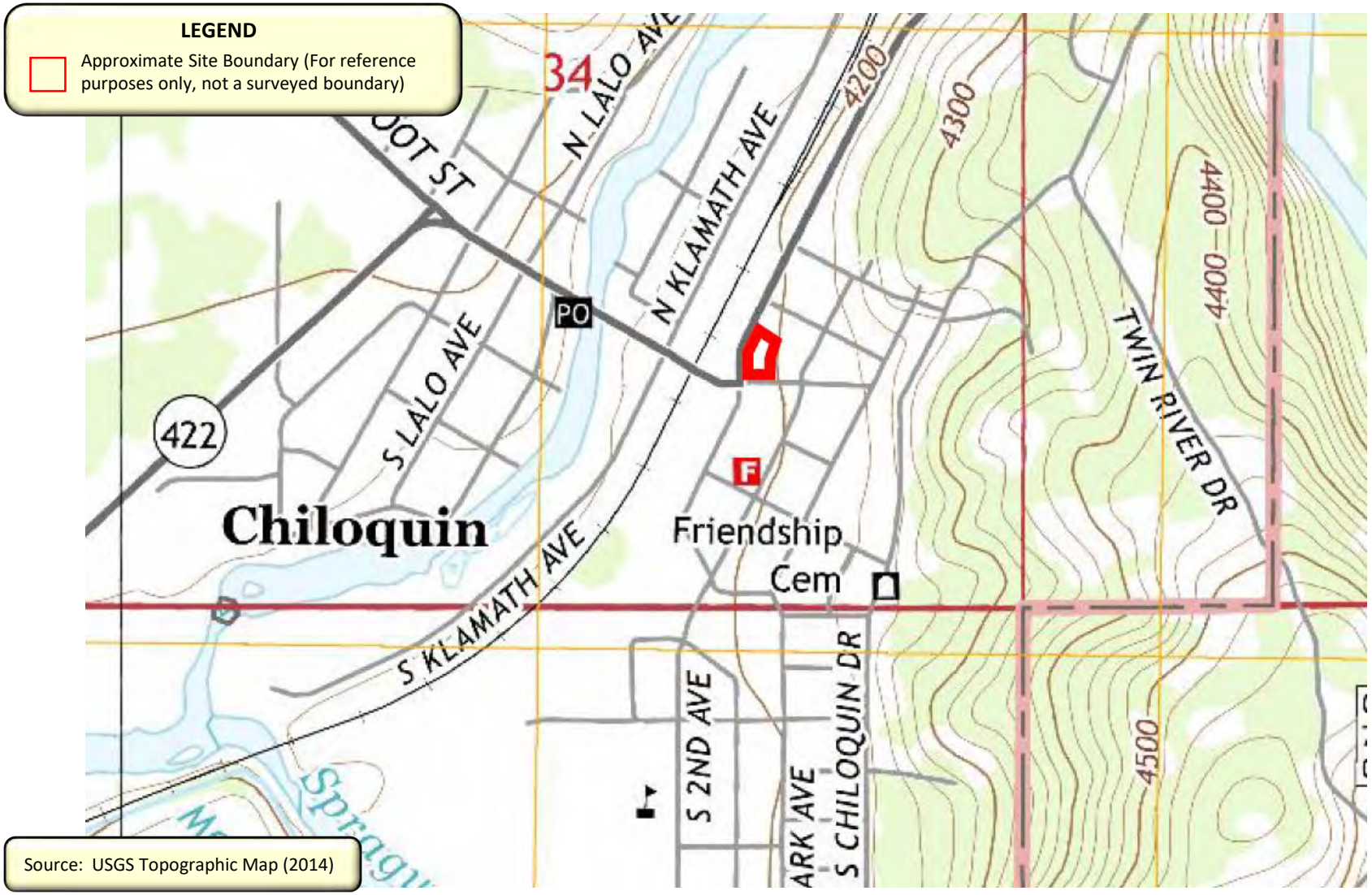


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**Figure 1**
**USGS/Site Vicinity Map**

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**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 2**
**Site Boundary Map**

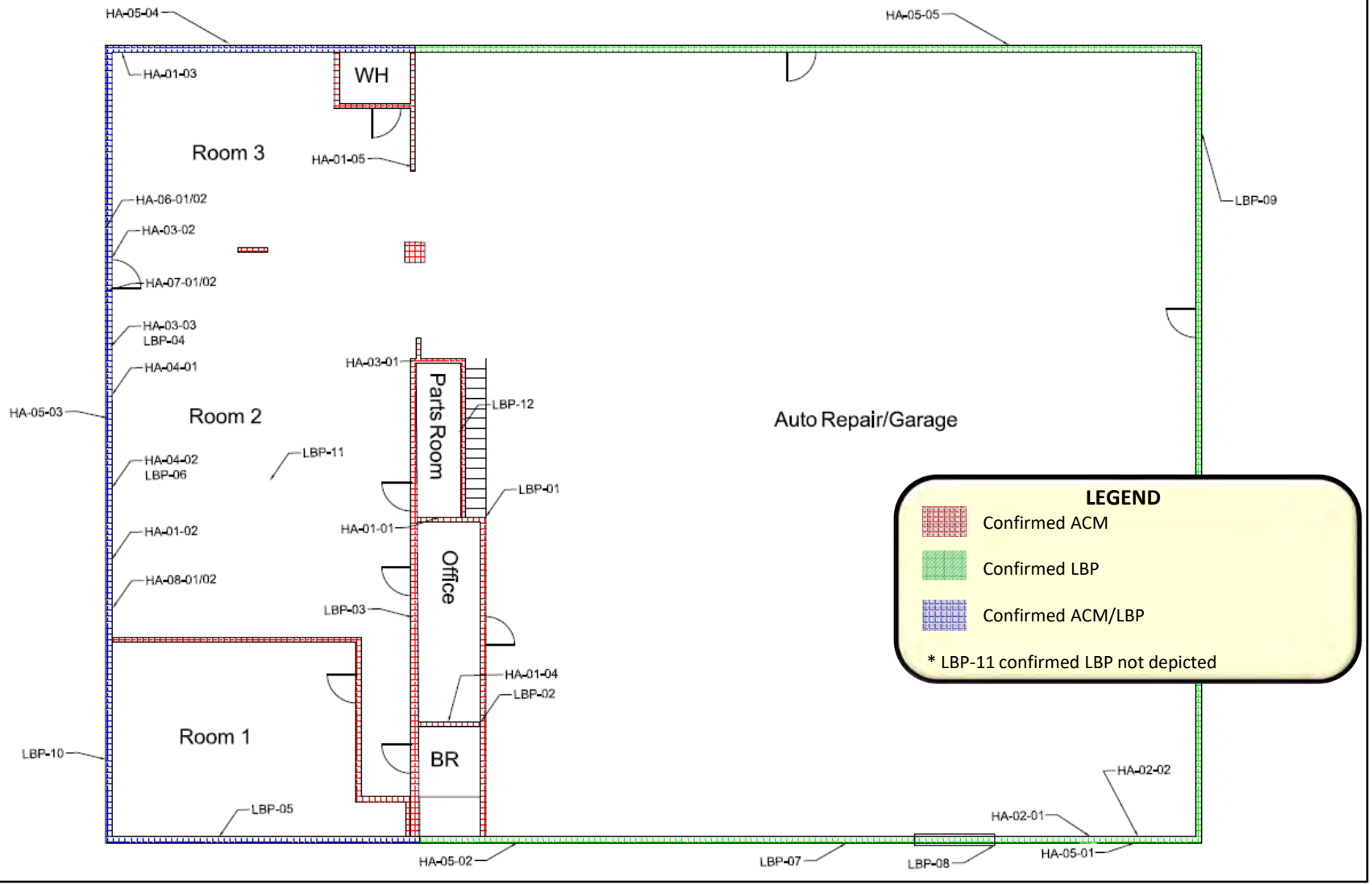


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**Figure 3**
**Building Diagram with**
**ACM/LBP Sample Locations**

# Tables

## TABLE 1: SUMMARY OF BULK SAMPLE ANALYSIS AND ASSESSMENT
FACILITY NAME: FORMER MARKWARDT BROTHERS GARAGE
CHILOQUIN, OREGON

| HA ID | Date | HA Description | Material Location | Percent and Type of Asbestos Detected[1] | Estimated Quantity | Type of ACM[2] | Friability[3] | Physical Condition |
|---|---|---|---|---|---|---|---|---|
| HA-01-01 | 4/13/21 | Interior plaster surfacing (Off-white plaster) | Parts room | NAD | N/A | N/A | NF | Good |
| **HA-01-02** | **4/13/21** | **Interior plaster surfacing (white skim coat)** | **Room 2** | **2% CH** | **3,600 SF*** | **SM** | **F** | **Good** |
| HA-01-03 | 4/13/21 | Interior plaster surfacing (Off-white plaster) | Room 3 | NAD | N/A | N/A | NF | Good |
| **HA-01-04A** | **4/13/21** | **Interior plaster surfacing (white skim coat)** | **Office** | **2% CH** | **3,600 SF*** | **SM** | **F** | **Good** |
| HA-01-04B | 4/13/21 | Interior plaster surfacing (Off-white plaster) | Office | NAD | N/A | N/A | NF | Good |
| HA-01-05 | 4/13/21 | Interior plaster surfacing (Off-white plaster/gray debris) | Room 3 | NAD | N/A | N/A | NF | Good |
| HA-02-01 | 4/13/21 | Window glazing, gray | Auto repair/Garage | NAD | N/A | N/A | NF | Good |
| HA-02-02 | 4/13/21 | Window glazing, gray | Auto repair/Garage | NAD | N/A | N/A | NF | Good |
| **HA-03-01A** | **4/13/21** | **Drywall (Texture)** | **Room 3** | **2% CH** | **800 SF**** | **Misc. Cat 1** | **NF** | **Fair** |
| HA-03-01B | 4/13/21 | Drywall (Cream tape) | Room 3 | NAD | N/A | N/A | NF | Fair |
| **HA-03-01C** | **4/13/21** | **Drywall (Joint Compound)** | **Room 3** | **2% CH** | **800 SF**** | **Misc. Cat 1** | **NF** | **Fair** |
| HA-03-01D | 4/13/21 | Drywall (with brown paper) | Room 3 | NAD | N/A | N/A | NF | Fair |
| **HA-03-02A** | **4/13/21** | **Drywall (Texture)** | **Room 2** | **2% CH** | **800 SF**** | **Misc. Cat 1** | **NF** | **Fair** |
| HA-03-02B | 4/13/21 | Drywall (Cream tape) | Room 2 | NAD | N/A | N/A | NF | Fair |
| **HA-03-02C** | **4/13/21** | **Drywall (Joint Compound)** | **Room 2** | **2% CH** | **800 SF**** | **Misc. Cat 1** | **NF** | **Fair** |
| HA-03-02D | 4/13/21 | Drywall (with brown paper) | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-03-03A | 4/13/21 | Drywall (Texture) | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-03-03B | 4/13/21 | Drywall (Cream tape) | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-03-03C | 4/13/21 | Drywall (Joint Compound) | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-03-03D | 4/13/21 | Drywall (with brown paper) | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-04-01 | 4/13/21 | Wall felt, black | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-04-02 | 4/13/22 | Wall felt, black | Room 2 | NAD | N/A | N/A | NF | Good |
| HA-05-01A | 4/13/21 | Exterior plaster surfacing (skim coat) | Southeast ext. wall | NAD | N/A | N/A | NF | Good |
| HA-05-01B | 4/13/21 | Exterior plaster surfacing (gray plaster) | South ext. wall | NAD | N/A | N/A | NF | Good |
| HA-05-02 | 4/13/21 | Exterior plaster surfacing (gray plaster) | Southwest ext. wall | NAD | N/A | N/A | NF | Good |
| HA-05-03 | 4/13/21 | Exterior plaster surfacing (gray plaster) | West ext. wall | NAD | N/A | N/A | NF | Good |
| HA-05-04 | 4/13/21 | Exterior plaster surfacing (gray plaster) | Northwest ext. wall | NAD | N/A | N/A | NF | Good |
| HA-05-05 | 4/13/21 | Exterior plaster surfacing (gray plaster) | Northeast ext. wall | NAD | N/A | N/A | NF | Good |
| HA-06-01 | 4/13/21 | Exterior gray caulk | West ext. wall | NAD | N/A | N/A | NF | Good |
| HA-06-02 | 4/13/21 | Exterior gray caulk | West ext. wall | NAD | N/A | N/A | NF | Good |
| HA-07-01 | 4/13/21 | Exterior white caulk | West ext. wall | NAD | N/A | N/A | NF | Good |
| HA-07-02 | 4/13/21 | Exterior white caulk | West ext. wall | NAD | N/A | N/A | NF | Good |
| **HA-08-01** | **4/13/21** | **Interior white caulk** | **Room 2** | **2% CH** | **30 LF** | **Misc. Cat 2** | **NF** | **Good** |
| **HA-08-02** | **4/13/21** | **Interior white caulk** | **Room 2** | **2% CH** | **30 LF** | **Misc. Cat 2** | **NF** | **Good** |
| **N/A** | **4/13/21** | **Building debris** | **Exterior north addition** | **N/A** | **650 CY** | **PACM** | **F** | **Poor** |

* White skim coat on plaster quantity is obtained estimated total quantity of assocated plaster
**Joint compound and texture quantity is obtained estimated total quantity of associated drywall

Notes:
(1) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = No Asbestos Detected
(2) Misc = Miscellaneous; TSI = Thermal System Insulation; SM= Surfacing Material
(3) F = Friable; NF - Non friable. For ACMs only: I = Non-Friable Category I; II = Non-Friable Category II
NM - not measured LF = linear feet PACM = Presumed Asbestos-Containing Materials
n/a - not applicable SF = square feet CY = Cubic Yards
PS = Positive stop, sample not analyzed

## TABLE 2: SUMMARY OF PAINT CHIP ANALYSIS AND ASSESSMENT
## FACILITY NAME: FORMER MARKWARDT BROTHERS GARAGE
### CHILOQUIN, OREGON

| Sample ID | Date | Location | Color | Substrate | Percentage Lead | Estimated Quantity | Physical Condition |
|---|---|---|---|---|---|---|---|
| LBP-01 | 4/13/21 | Auto repair/Garage | White | Wood | 0.150% | N/A | Not Intact |
| LBP-02 | 4/13/21 | Office | Yellow | Plaster | 0.038% | N/A | Intact |
| LBP-03 | 4/13/21 | Office | Pink | Wood | 0.082% | N/A | Intact |
| LBP-04 | 4/13/21 | Room 2 | White | Drywall | BRL | N/A | Intact |
| LBP-05 | 4/13/21 | Room 1 | Blue | CMU | 0.0062% | N/A | Intact |
| LBP-06 | 4/13/21 | Room 2 | Green | CMU | 0.0042% | N/A | Intact |
| **LBP-07** | **4/13/21** | **South Exterior Wall** | **Red** | **Plaster** | **2.000%** | **3,600 SF** | **Not Intact** |
| LBP-08 | 4/13/21 | South Exterior Wall (garage door) | Green | Metal | 0.0210% | N/A | Intact |
| LBP-09 | 4/13/21 | East Exterior Wall | Red | CMU | 0.0110% | N/A | Intact |
| LBP-10 | 4/13/21 | West Exterior Wall | Red | Wood | 0.0120% | N/A | Intact |
| **LBP-11** | **4/13/21** | **Room 2** | **Tan/gray** | **Wood** | **6.60%** | **1,200 SF** | **Not Intact** |
| LBP-12 | 4/13/21 | Parts Room | Green | Wood | 0.0120% | N/A | Not Intact |

Notes:
NM - not measured
n/a - not applicable
LF = linear feet
SF = square feet
BRL = Below Laboratory Reporting Limit

Oregon
Kate Brown, Governor

**Department of Environmental Quality**
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June 3, 2021

Teresa Foreman
City of Chiloquin
127 South First Ave.
Chiloquin, OR 97624

Re: Voluntary Letter Agreement, Markwardt Building (former), ECSI No. 6462

Dear Ms. Foreman:

This letter responds to your request to investigate and/or clean up contaminated property under the review and oversight of the Oregon Department of Environmental Quality (DEQ) Voluntary Cleanup Program. This letter also serves as a Letter Agreement between you and DEQ, regarding DEQ review and oversight of the investigation and/or cleanup of hazardous substances at the former Markwardt Building property located at 103 E. Chocktoot Street, Chiloquin, Oregon.

DEQ agrees to review environmental documents submitted by you or on your behalf regarding the investigation and/or cleanup of the above- referenced site, and to review related information available in DEQ's files, and conduct a site visit. DEQ will then recommend a course of action to complete the project. The course of action may include, but not be limited to, additional investigation, risk assessment, remedial action evaluation and selection, and/or a "no further action" determination consistent with the Environmental Cleanup Law. DEQ will provide public notice and opportunity for comment on any remedial action proposal or "no further action" determination in accordance with ORS 465.320. DEQ will also determine, in consultation with you, the form of any further agreement needed to manage the project most effectively.

DEQ requires that persons seeking DEQ review and oversight of investigation and cleanup activities provide a minimum deposit as an advance against costs, which DEQ will incur. DEQ is waiving the deposit for this Letter Agreement. When you have signed this letter to formalize your request, a sub-account of the Hazardous Substances Remedial Action Fund will be established to be drawn upon by DEQ as project costs are incurred.

DEQ project costs will include direct costs and indirect costs. Direct costs include site-specific expenses and legal costs. Indirect costs are those general management and support costs of the State of Oregon and DEQ allocable to DEQ oversight of this Letter Agreement and not charged as direct site-specific costs. Indirect charges are based on actual costs and are applied as a percentage of direct personal services costs. Review and oversight costs will not include any unreasonable costs or costs not otherwise recoverable by DEQ under ORS 465.255.

DEQ will provide you with a monthly invoice. In the event project costs exceed the sub-account balance, DEQ will submit to you an invoice for any costs in excess of the advance. In the event project costs do not exceed the sub-account balance, DEQ will refund within 60 days of the close of

the project any amount of the deposit remaining in excess of the actual costs, or will apply the remaining amount toward oversight of work under any further agreement necessary for the project.

Either you or DEQ may terminate this Letter Agreement by giving 15 days advance written notice to the other. Only those costs incurred or obligated by DEQ prior to the effective date of any termination of this Letter Agreement shall be recoverable under this Agreement. Termination of this Letter Agreement will not affect any other right DEQ may have for recovery of costs under applicable law.

You shall hold DEQ harmless for any claims (including but not limited to claims of property damage or personal injury) arising from activities performed by you and reviewed or overseen by DEQ under this Letter Agreement.

This Letter Agreement is not and shall not be construed as an admission by you of any liability under ORS 465.255 or any other law or as a waiver of any defense to such liability. This Letter Agreement is not and shall not be construed as a waiver, release, or settlement of claims DEQ may have against you or any other person or as a waiver of any enforcement authority DEQ may have with respect to you or the property. Upon DEQ's request and as necessary to oversight of your work under this Letter Agreement, you shall provide DEQ with data and records related to investigation and cleanup activities at the property, excluding any privileged documents identified as such by you.

DEQ will perform up to $5,000 of work, including indirect costs and expenses, under this agreement. DEQ may undertake additional work, in excess of $5,000, under this agreement with prior agreement between DEQ and the City of Chiloquin.

DEQ appreciates your interest in the Voluntary Cleanup Program and looks forward to working with you. Please contact Katie Daugherty at (503) 860-3943 with any questions you may have.

Sincerely,

David Anderson
David Anderson (Jun 3, 2021 15:06 PDT)

David Anderson
Cleanup Program Manager
Eastern Region

If the terms of this Agreement are acceptable to the City of Chiloquin, please have it executed by an authorized representative in the space provided below and return to **Katie Daugherty via email at** Katie.Daugherty@deq.state.or.us.

Accepted and agreed to this 4th day of June, 2021.

By: Teresa R Foreman

Title: City Recorder

# Phase II Environmental Site Assessment Report

Former Markwardt Brothers Garage
North 1st Avenue and West Chocktoot Street
Chiloquin, Klamath County, Oregon 97624

Prepared for: City of Chiloquin, Oregon
Oregon DEQ ECSI No. 6462

November 2, 2021

Cardno®

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Branch Manager

# Document Information

| | |
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# 1 Introduction

## 1.1 Purpose

Cardno was retained by the City of Chiloquin (Client) to conduct this Phase II Environmental Site Assessment (ESA) of the Former Markwardt Brothers Garage property, located northeast of the North 1st Avenue and West Chocktoot Street intersection in Chiloquin, Klamath County, Oregon (**Figure 1**), herein referred to as the "Subject Property" or "Site." In addition, the Subject Property was entered into the Voluntary Letter Agreement (ECSI No. 6462) with the Oregon Department of Environmental Quality on June 4, 2021. This investigation was conducted in general conformance with the scope and limitations outlined by *ASTM Standard E1903-19*; however, the specific scope of work was negotiated between the Client and Cardno to meet the objectives of the Client.

The primary objective of the Phase II ESA was to further evaluate the identified recognized environmental conditions (RECs) (as defined in *ASTM Standard E1527-13*) and to provide sufficient information regarding the nature and extent of contamination to assist in making informed business decisions about the property; and, where applicable, providing the level of knowledge necessary to satisfy the Landowner Liability Protection provisions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). RECs are defined by *ASTM Standard E1527-13* as: "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

Oregon Department of Environmental Quality (ODEQ) issued a Voluntary Letter Agreement letter on June 3, 2021, accepting the Site into the ODEQ Voluntary Cleanup Plan (ECSI No. 6462). This assessment was completed in accordance with the Phase II Environmental Site Assessment Work Plan (Cardno, 2021c).

## 1.2 Site Location / Description

The Subject Property is comprised of two tax parcels (Parcel ID 3407-034DC-00400 & Parcel ID 3407-034DC-00500), currently owned by Klamath County, located at the center of downtown Chiloquin, Oregon, as shown on **Figure 2**. The Subject Property is bound by a commercial facility to the north, undeveloped/vacant land to the northeast, multi-commercial facility to the east, Sky Lakes Wilderness Adventures and Klamath Tribal Courts & Child Support Enforcement Office to the southeast, the Hirvi building to the south, a former gas station to the west, and the former Union Oil Bulk Plant property to the southwest. According to the Klamath County Tax Assessor's website, the Site encompasses two parcels totaling approximately 0.55-acre. The Subject Property is developed with a single-story commercial building of concrete block and brick facade construction. A second building, historically occupied by the Chiloquin Mercantile, partially collapsed and was demolished with the exception of a vault. The associated rubble remains on-Site. The building is currently vacant and in the care of Klamath County.

## 1.3 Site History

According to the current property owner, the on-Site commercial structure was constructed in the late 1920s or early 1930s. The building previously supported a car dealership, grocery, bicycle repair shop, music school, and auto-body shop. The building formerly located on the north parcel was constructed during the same time-period and operated as the Chiloquin Mercantile. It was vacated at an unknown date, and collapsed in 2019. The collapsed building remains on-Site, described throughout this report as the debris pile.

## 1.4 Current Adjacent Land Uses

The Site is located in a commercial area of Chiloquin. Specific adjoining property uses are detailed in the following table:

| Direction from Property | Occupant(s) Name | Current Use | Environmental Concerns |
|---|---|---|---|
| South | Hirvi Building | Commercial | None |
| West | Former Texaco Gas Station | Commercial | **Historical REC #1** |
| Northwest | Vacant | Undeveloped/Vacant | None |
| North | Vacant | Commercial | None |
| Northeast | Undeveloped/Vacant | Undeveloped/Vacant | None |
| East | Vacant/Multi-Commercial facility | Vacant Commercial | None |
| Southeast | Sky Lakes Wilderness Adventures | Commercial | None |
| Southeast | Klamath Tribal Courts & Child Support Enforcement Office | Municipal | None |

## 1.5 Previous Environmental Assessments

Cardno completed a Phase I ESA and Asbestos and Lead-Based Paint Assessment on the Subject Property dated May 17, 2021 (Cardno, 2021a, 2021b). Through the review of historical records, interviews, and site reconnaissance, this assessment identified several RECs in connection with the Subject Property, including the following:

**On-Site REC**

1. According to the 1931 Sanborn Fire Insurance Map (FIM), the building was used as an auto repair garage (east portion), and “Gas & Oil” facility (southwest area). During site reconnaissance, Cardno personnel identified a potential underground storage tank (UST) vent pipe attached to the west interior wall of the on-Site building in an area consistent with the FIM gasoline station location. Therefore, there is potential for historical bulk storage and dispensing of petroleum products on the Subject Property, which may have impacted the soil, groundwater, and/or vapor at the Subject Property.

2. The remains of three in-ground hydraulic lifts and one oil-changing pit were observed in the building. According to the 1931 Sanborn FIM, the on-Site building is labeled as being an auto repair/garage facility. Additionally, based on the age of the building, this time-frame predates the regulation of the storage/disposal of hazardous substances such as used oil and other non-regulated automobile chemicals. Based on the age and duration of use, the in-ground lifts and unknown chemical management and disposal practices associated with historic operations, soil, groundwater, and/or vapor may have been impacted by historic Site operations.

3. During site reconnaissance, Cardno identified a second potential vent pipe in the interior of the building along the eastern wall. This feature is an indication of a second petroleum product UST and/or heating oil tank to exist on the Subject Property. Based on the age and duration of the former use of the building, there is potential for a UST/heating oil tank on the property that may have impacted the soil, groundwater, and/or vapor at the Subject Property.

**Off-Site RECs**

4. According to the 1931 Sanborn FIM, a Printing facility was located approximately 80 feet to the east. The length of operation for this facility is unknown. There is potential for a release from this facility.

According to the 1931 Sanborn FIM, a Cleaning facility was located approximately 120 feet to the southeast. The length of operation for this facility is unknown. There is a potential for a historic release from this facility.

**Off-Site Historical RECs (HREC)**

1. According to ODEQ records, the former Chiloquin Texaco, located west and approximately 45 feet away, indicate that four USTs were installed pre-1989 which predates UST registration. These tanks were removed from the property in July 1994, and three new registered gasoline USTs were installed in the UST tank excavation in August 1994. The new tanks were subsequently removed in 2017. With the exception of benzene and ethylbenzene in two soil samples in the 2017 UST excavation, petroleum hydrocarbon concentrations in soil and groundwater did not exceed applicable ODEQ Risk Based Concentrations (RBCs). On July 22, 2019, ODEQ granted a No Further Action (NFA) determination letter for the Chiloquin Texaco site. Based on the issuance of an NFA, and given the assumed ground water flow direction away from the subject Site, this facility is considered a historical REC. See Section 5.1 for further details.

Based upon the RECs identified above, Cardno recommended soil and groundwater analysis be conducted throughout the Subject Property to determine the presence and/or extent of contamination. An excerpt of the Phase I ESA is included in **Appendix A**.

**Asbestos-Containing Materials**

An Asbestos containing materials (ACMs) survey was conducted during the Phase I ESA, and the following ACMs were identified throughout the interior of the building including:

- Interior white skim coat on plaster surfacing, totaling approximately 3,600 square feet (SF), located within the western most portions of the on-Site building.
- Interior white texture and joint compound on drywall, totaling approximately 1,000 SF, located within the western most portions of the on-Site building.
- Interior white caulk, totaling approximately 50 linear feet (LF), located on interior west wall windows.

Overall, given the state of the buildings, most of these materials were in good to fair condition. Therefore, the identified ACM has a low probability of disturbance during ordinary use. Prior to any renovation or demolition that may cause the ACM to become friable, the material should be removed or abated by a qualified asbestos abatement contractor.

During the inspection, suspect building materials were observed in the exterior building debris from the former attached north building (former Chiloquin Mercantile); however, this material was not sampled and was identified in the report as presumed asbestos containing materials (PACM).

**Lead-Based Paint**

During the Phase I ESA inspection Cardno conducted a Lead-based paint (LBP) survey. Samples collected during the inspection identified LBP on various painted surfaces throughout the interior and exterior of the building in various tenant spaces including:

- Red paint on exterior concrete masonry unit (CMU), totaling approximately 3,600 SF, located on the exterior east, south, and west walls.
- Tan/gray paint on interior ceiling, totaling approximately 1,200 SF, located on wood board ceiling on the southwest corner of the building.

Most of the identified painted surfaces were in poor condition, with peeling and deterioration noted. As the building is not considered to be a child-occupied facility, the identified LBP can be left intact unless disturbed during renovation or demolition.

The Asbestos and Lead-based Paint Survey report detailing the inspection and sampling results was issued on May 17, 2021, and provided as an attachment in **Appendix A**.

## 1.6 Limitations / Exceptions of Assessment

The conclusions and recommendations contained within this report are based on the data developed during this Phase II ESA investigation. This report was prepared for the Client and their assignee(s), and is intended solely for their use. This report is not intended for third-party use without the expressed written consent of the Client and Cardno. This assessment has been prepared in general accordance with accepted environmental methodologies referred to in *ASTM Standard 1903-19*, including limitations inherent in these methodologies.

No other warranty is expressed or implied.

## 1.7 Special Terms and Conditions (User Reliance)

No ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical analysis may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Additional assessment may be able to reduce the uncertainty. Even when Phase II ESA work is executed with an appropriate site-specific standard of care, certain conditions present especially difficult detection problems. Such conditions may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, physical limitations imposed by the location of utilities and other man-made objects, and the limitations of assessment technologies.

Phase II ESAs do not generally require an exhaustive assessment of environmental conditions on a property. There is a point at which the cost of information obtained and the time required to obtain it outweigh the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. If hazardous substance or petroleum releases are confirmed on a parcel of property, the extent of further assessment is related to the degree of uncertainty that is acceptable to the user with respect to the real estate transaction. Measurements and sampling data only represent the site conditions at the time of data collection. Therefore, the usability of data collected as part of this Phase II ESA may have a finite lifetime depending on the application and use being made of the data. An environmental professional should evaluate whether the generated data are appropriate for any subsequent use beyond the original purpose for which it was collected.

This report is for the use and benefit of, and may be relied upon by the entity(s) identified in Section 1.1 of this report as the Client, as well as any of its affiliates and their respective successors and assigns, in connection with a commercial real estate transaction involving the property, and in accordance with the terms and conditions in place between Cardno and the Client for this project. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Cardno is at the sole risk and expense of such third party.

Cardno makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the

assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

# 2 Beneficial Land and Water Use

## 2.1 Locality of the Facility

As defined by ODEQ, the Locality of the Facility is “any point where a human or an ecological receptor contacts or is reasonably likely to come into contact with facility related hazardous substances.” (ODEQ, 1998a) This definition takes into account the likelihood of contamination migrating over time onto adjacent or nearby properties.

The chemical data obtained from soil and groundwater samples collected from the Site are used to approximate the Locality of the Facility, which is estimated to include the subsurface soil, groundwater, and soil vapor at the Site as well as the groundwater on adjoining properties directly downgradient of the Site.

## 2.2 Land Use Determination

The land use determination was performed in accordance with the ODEQ Guidance for the Consideration of Land Use in Environmental Remedial Actions (ODEQ, 1998a). The current and possible future land uses and water uses at the Site determine the types of receptors (human and ecological) that could potentially come into contact with elevated concentrations of impacted environmental media (soil, groundwater, soil vapor).

The Site is zoned for commercial use (C) by Klamath County. All adjoining properties are similarly zoned as commercial by Klamath County.

Potential future occupants of the Site and Locality of the Facility may be commercial or residential depending on developer preference and appropriate land use categories. Potential current and future receptors in the Locality of the Facility include occupational and residential, as well as excavation and construction workers during potential remedial actions followed by land development and infrastructure construction. However, a residential occupancy of the Site is unlikely as the commercial zoning does not allow for residential occupancy under current zoning ordinances.

## 2.3 Groundwater Use

The beneficial water use determination was performed in accordance with ODEQ Guidance for Conducting Beneficial Water Use Determinations at Environmental Cleanup Sites (ODEQ, 1998b). A search of the Oregon Water Resources Department (OWRD) database and a driving reconnaissance of the area surrounding the Site did not identify any active drinking water supply wells on the Site or in the vicinity of the Site.

## 2.4 Surface Water

The nearest surface water body in proximity to the Site is the Williamson River, located approximately 0.15-mile to the west. A review of the US Fish and Wildlife Service’s National Wetland Inventory and Site reconnaissance did not discover the presence of on-Site surface waters or wetlands.

## 2.5 Beneficial Water Use Determination

The municipal water system supplies the Site and surrounding area with drinking water; further, there are no wetlands or surface water bodies in the Locality of the Facility. Based on these findings, beneficial uses of groundwater within the presumed Locality of the Facility and unconfined aquifer are unlikely.

# 3 Phase II ESA Activities

## 3.1 Sampling Objectives

### 3.1.1 Conceptual Site Model and Sampling Plan

The conceptual site model (CSM) takes into consideration the potential distribution(s) of contaminants with respect to the property and anticipated fate and transport characteristics of contaminants in the setting being assessed. The sampling plan was designed to provide for the collection of environmental media samples at locations and depths where impacts are most likely to occur.

The sampling plan developed for this project was based upon information provided in Cardno's May 2021 Phase I ESA. Specifically, soil and groundwater borings were located to assess for potential adverse impacts to the Site from the former underground bulk storage and dispensing of petroleum products and hazardous substance impacts from former on-Site automotive repair and in-ground hydraulic lifts, as well as impacts from off-Site dry-cleaning and printing facilities. Sample analysis performed under the CSM included: Volatile Organic Compounds (VOCs) by EPA Method 8260D, Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270E, Resource Conservation Recovery Act (RCRA) 8 metals by EPA Methods 6010D and 7470A/7471B, Polychlorinated Biphenyls (PCBs) by EPA Method 8082A, Total Petroleum Hydrocarbons (TPH) as Gasoline Range Organics (GRO) by Method NWTPH-Gx, and Diesel Range Organics (DRO) and Residual Range Organics (RRO) by Method NWTPH-Dx. The locations of borings and temporary monitoring wells installed to address identified RECs are noted in **Figures 3 and 4**.

### 3.1.2 Chemical Testing Plan/QAQC

The chemical testing plan was designed to detect the contaminants suspected to be present in the samples collected. This testing plan included tests which provide quality assurance (QA) and techniques that provide quality control (QC) over the chemical analysis. A completed chain of custody record accompanied each sample shipment to the analytical laboratory. Chain of custody records provide written documentation regarding sample collection and handling, identify the persons involved in the chain of sample possession, and a written record of requested analytical parameters.

### 3.1.3 Deviations from Phase II ESA Work Plan

Unless otherwise stated in this section, the work was performed without deviation from the protocols and procedures outlined in the Phase II ESA Work Plan (Cardno, 2021c).

The following deviations were encountered during this work:

- Due to access limitations, proposed borings B-1, as listed in the Phase II ESA Work Plan, could not be advanced adjacent to potential on-Site underground storage tank (UST) due to ceiling clearance and was relocated to the exterior. Proposed borings B-2 and B-9 were relocated to the interior of the building in order to avoid subsurface utilities.
- GPR investigation of the second UST, potentially located along the east wall was not completed.
- Well locations and elevations were not surveyed as planned using a Global Positioning System device or conventional survey equipment; as such, a potentiometric surface map was not produced.
- Cardno collected two of the proposed four paint chip samples from the debris pile.

## 3.2 Field Investigation and Methods

### 3.2.1 Soil Boring Installations & Sampling Activities

Based on the results of the Phase I ESA, nine soil borings (B-1 through B-9) were installed using a track-mounted direct push technology (DPT) drill rig, as depicted on **Figure 3**. Per the Phase II ESA Work Plan and in accordance to Cardno's CSM, borings B-1 through B-5 were converted to temporary monitoring wells (TMW-1 through TMW-5). All boring and monitoring wells were advanced in strategic locations based on the RECs identified in connection with the Subject Property.

During advancement of the soil borings, DPT soil cores were logged for lithology and screened in-field with an Organic Vapor Analyzer (OVA) equipped with a Photoionization Detector (PID). On August 17, 2021, Cardno and a subcontracted drilling company, Steadfast Services Northwest, LLC (Steadfast), mobilized to the Subject Property to perform soil sampling and installation of temporary groundwater monitoring wells. These borings were advanced into groundwater using a track-mounted GeoProbe DPT drill rig. Soil boring logs are included in **Appendix B**.

A summary of each soil boring, including total depth, sampling depth, sample location and intended purpose is outlined below.

**Boring B-1** was located along North 1st Avenue and west of the on-Site building. The purpose of the boring was to identify possible contaminant migration from the underground storage tank and automotive service operations on-Site. Boring B-1 was advanced on August 17, 2021, to a total depth of 15 feet below ground surface (bgs). No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from two to four feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Boring B-2** was located within the interior of the southeast corner of the on-Site building. The purpose of the boring was to identify possible contamination from the off-Site dry-cleaning and printing facilities. Boring B-2 was advanced on August 17, 2021, to a total depth of 10 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Boring B-3** was located north of the on-Site building and debris/rubble pile. The purpose of the boring was to identify possible contamination from off-Site dry-cleaning and printing facilities. Boring B-3 was advanced on August 17, 2021, to a total depth of 12 feet bgs. No odors or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Boring B-4** was located north of the on-Site building and west of the on-Site rubble pile. The purpose of the boring was to identify possible contaminant migration from the UST and automotive service operations from the former on-Site underground storage tank and automotive service operations. Boring B-4 was advanced on August 17, 2021, to a total depth of 15 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Boring B-5** was located in the center of the on-Site building adjacent to a hydraulic in-ground lift. The purpose of the boring was to identify possible contamination from former auto service operations and the hydraulic in-ground lift. Boring B-5 was advanced on August 17, 2021, to a total depth of 15 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, DRO, RRO, and GRO.

**Boring B-6** was located within the interior of the on-Site building adjacent to a hydraulic in-ground lift. The purpose of the boring was to identify possible contamination from former auto service operations and the hydraulic in-ground lift. Boring B-6 was advanced on August 17, 2021, to a total depth of 10 feet bgs.

No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, DRO, RRO, and GRO. A duplicate soil sample was collected from zero to two feet bgs and analyzed for VOCs.

**Boring B-7** was located within the interior of the on-Site building adjacent to a hydraulic in-ground lift. The purpose of the boring was to identify possible contamination from former auto service operations and the hydraulic in-ground lift. Boring B-7 was advanced on August 17, 2021, to a total depth of 10 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from zero to two feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, DRO, RRO, and GRO.

**Boring B-8** was located within the interior of the on-Site building and north of the potential UST identified during the GPR survey. The purpose of the boring was to identify possible contaminant migration from the on-Site UST and automotive service operations. Boring B-8 was advanced on August 17, 2021, to a total depth of 6 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from two to four feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Boring B-9** was located within the interior of the on-Site building near the northern wall. The purpose of the boring was to identify possible contaminant migration from a potential on-Site UST. Boring B-9 was advanced on August 17, 2021, to a total depth of 10 feet bgs. No elevated OVA readings, odors, or visual indications of contamination were noted in the soil column. A soil sample was collected from two to four feet bgs and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

A total of 10 soil samples, including a field duplicate sample, were collected for laboratory analysis. These samples were submitted to Pace Analytical Service, Inc. (Pace), in Mount Juliet, Tennessee, under Chain-of-Custody protocol. A soil analytical summary (detections only) is provided in **Table 1**. Laboratory analytical reports are included in **Appendix D**.

### 3.2.2 Temporary Monitoring Well Installation & Groundwater Sampling Activities

Five of the soil borings were extended into the water table and converted into temporary groundwater monitoring wells (TMW-1, TMW-2, TMW-3, TMW-4, and TMW-5) on August 17, 2021. Locations of the temporary monitoring wells are depicted on **Figure 4**.

Temporary, one-inch diameter, polyvinyl chloride (PVC) monitoring wells were installed in 10-foot sections after the borings were advanced into the water table. The well screens were 0.010-inch PVC and screen lengths for each well were 10 feet. Silica sand packs were installed to surface.

After their installation, the temporary monitoring wells were developed until at least five well volumes were removed or until the well was fully evacuated of groundwater. Suspended fines and foreign materials from the initial soil borings were purged during development with the goal of encouraging formation groundwater to enter the well screen. Non-aqueous phase liquid (NAPL) or free product was not observed in the temporary monitoring wells during the course of this investigation.

Prior to sampling, the wells were purged with a peristaltic pump until either a minimum of three well volumes were purged or until groundwater quality parameters stabilized. Groundwater quality parameters measured include pH, temperature, conductivity, and dissolved oxygen. These parameters were measured using a YSI ProSeries Professional Plus. Turbidity was measured utilizing a Hach 2100Q turbidity meter to verify that groundwater turbidity was less than 10 Nephelometric Turbidity Units (NTU). Cardno was unable to obtain <10 NTUs in all monitoring wells (TMW-1 through TMW-5); turbidity ranged from 692.34 NTUs in TMW-2 to 33.96 NTUs in TMW-4.

A summary of each installed groundwater well is as follows:

**Temporary Monitoring Well TMW-1** was installed at the location of B-1 and over three well volumes were purged. After groundwater parameters stabilized, a groundwater sample was collected on August 18, 2021, and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Temporary Monitoring Well TMW-2** was installed at the location of B-2 and over three well volumes were purged. After groundwater parameters stabilized, a groundwater sample was collected on August 18, 2021, and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Temporary Monitoring Well TMW-3** was installed at the location of B-3 and over three well volumes were purged. After groundwater parameters stabilized, a groundwater sample was collected on August 18, 2021, and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO. A duplicate groundwater sample was collected and analyzed for VOCs.

**Temporary Monitoring Well TMW-4** was installed at the location of B-4 and over three well volumes were purged. After groundwater parameters stabilized, a groundwater sample was collected on August 18, 2021, and analyzed for VOCs, SVOCs, RCRA 8 metals, DRO, RRO, and GRO.

**Temporary Monitoring Well TMW-5** was installed at the location of B-5 and over three well volumes were purged. After groundwater parameters stabilized, a groundwater sample was collected on August 18, 2021, and analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, DRO, RRO, and GRO.

A total of six groundwater samples, including a field duplicate sample, were collected and submitted to Pace in Mount Juliet, Tennessee, under chain-of-custody protocol. A groundwater analytical summary (detections only) is provided in **Table 2**. Groundwater sampling logs can be found in **Appendix C**. Laboratory analytical reports are included in **Appendix D**. Following groundwater sampling activities, each of the temporary monitoring wells were decommissioned by a licensed driller.

### 3.2.3 Investigation Derived Waste

Investigation derived waste (IDW) generated during this investigation included all materials recovered during boring and monitoring well installation and sampling activities. IDW were containerized in a 55-gallon drum which was staged on the Subject Property. A total of one 55-gallon drum was labeled as non-hazardous waste with waste generator information provided. The 55-gallon drum will be disposed at a Subtitle D landfill in accordance with all appropriate regulations.

### 3.2.4 Ground Penetrating Radar

Based on Cardno's findings from the May 2021 Phase I ESA, the former Markwardt Brothers Garage building was used as an auto repair garage and gasoline filling station. Further, Cardno personnel identified potential UST vent pipes attached to the west interior wall in the vicinity of the area historically used as a gasoline filling station as well as a second vent pipe in the eastern area of the building which potentially serviced a heating oil tank.

On August 17, 2021, Cardno subcontracted GPR Data Inc. (GPR Data) to conduct a ground penetrating radar (GPR) study in the area identified in the 1931 Sanborn FIM and subsurface utility clearing of all boring/well locations. GPR field investigation began with the utilization of a Geophysical Survey Systems Inc. (GSSI) Utility Scan LT GPR system, configured with a 400-Megahertz (MHz) GPR antenna connected to a SIR3000. Upon completion, GPR Data identified one anomaly, appearing to represent patterns, data, and information comparable to a UST in the interior of the building. No other anomalies or evidence of additional USTs were noted. The approximate location of the UST is depicted in **Figure 5** and the GPR report is included in **Appendix E.**

### 3.2.5 Debris Characterization Analysis

Per the Phase II ESA Work Plan dated June 23, 2021, Cardno proposed to collect up to 10 bulk samples from the debris/rubble pile for laboratory analysis by polarized light microscopy (PLM) to determine

asbestos fiber content. Further, Cardno proposed the collection of up to four (4) paint chip samples to be collected from the debris/rubble pile and analyzed for lead by Toxicity Characteristic Leaching Procedure (TCLP).

During Cardno's Phase II ESA activities, Cardno's Ashton Smithwick, a licensed and accredited asbestos inspector, collected six (6) bulk samples from the debris/rubble pile and submitted these samples to Eurofins EMLab P&K (EMLab) in Norcross Georgia. EMLab analyzed all samples using Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116. This laboratory is accredited by the National Institute of Standards of Technology (NIST), and is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP). EMLab participates as a nationally recognized laboratory accreditation program for asbestos testing, as required by ODEQ regulation OAR 430-248-0270(3)(c). A bulk sample analysis summary is provided in **Table 3**. A copy of the analytical results including the laboratory certification is included in **Appendix D.**

Further, Mr. Smithwick, an EPA-trained lead-based paint (LBP) inspector, collected two samples from the debris/rubble pile to be analyzed for lead by Toxicity Characteristic Leaching Procedure (TCLP). These samples were submitted to Pace in Mount Juliet, Tennessee, under chain-of-custody protocol. A TCLP analysis summary is provided in **Table 4.** A copy of the analytical results including the laboratory certification is included in **Appendix D**.

# 4 Environmental Assessment Results

## 4.1 Site Geology

Based on the soil boring log data, soil underlying the Site predominantly consists of unconsolidated sand and silt deposits to the deepest terminal boring depth of 15 feet below ground surface (bgs). Generally, these deposits were represented by sandy silt, with less common observances of gravel and clay. Soil was consistently observed to be brown with the exception of the sand observed from 13.5-15 feet bgs in boring B-5 which was observed to be gray.

## 4.2 Site Groundwater

Groundwater was encountered in soil borings B-1 through B-5 between 5 and 8 feet bgs. Static groundwater on August 18, 2021, was observed between 9.59 and 10.62 feet below top of temporary well casings, which approximately corresponded to ground surface elevations. A summary of shallow water table data collected on August 18, 2021, is provided on **Table 5**.

## 4.3 Analytical Data Results

### 4.3.1 Soil

A comparison of the laboratory analytical results to the ODEQ RBCs (ODEQ, 2018) for sample results above laboratory reporting limits is presented in **Table 1**.

Select VOC (**1,2,4-trimethybenzene** and **xylenes (total**), RCRA 8 metal (**barium**, **chromium**, **lead**, and **mercury**), DRO, and RRO concentrations were present above laboratory reporting limits. A discussion of soil analytical results and exceedances of applicable RBCs is included in Section 5.

SVOCs, PCBs, and GRO concentrations were not present above laboratory reporting limits in soil samples analyzed from the Site.

### 4.3.2 Groundwater

A comparison of the laboratory analytical results to the RBCs for sample results above laboratory reporting limits is presented in **Table 2**.

With the exception of **GRO**, **barium**, **chromium**, and **lead**, analyzed constituents were not present in groundwater above laboratory reporting limits. A discussion of groundwater analytical results and exceedances of applicable RBCs is included in Section 5.

VOCs, SVOCs, DRO, and RRO concentrations were not reported above laboratory reporting limits in groundwater samples analyzed from the Site.

### 4.3.3 Quality Assurance and Quality Control Methods

Samples were labeled with a distinct sample identification number, the sampler's initials, and the date of the collection. Each sample container was sealed, labeled, placed on ice in a cooler, and shipped to Pace within the sample hold times. A completed chain-of-custody form was initiated in the field and accompanied the samples when submitted to the laboratory for analyses.

Copies of the chain-of-custody forms are shown in the laboratory analytical reports included as **Appendix D.**

### 4.3.4 Debris Characterization Analysis

Based on the analytical results of suspect ACM samples collected from the debris pile for the purpose of debris characterization, the following materials were identified as asbestos-containing:

- White texture with paint on drywall
- White joint compound on drywall

The drywall identified throughout the debris/rubble pile appeared to be in poor condition and is considered a friable material. The laboratory report is included as **Appendix D** with results summarized in **Table 3**. Additionally, samples collected from the debris/rubble pile and analyzed for TCLP indicated lead was below laboratory method detection limits. The laboratory report is included as **Appendix D** with results summarized in **Table 4**.

# 5 Conceptual Site Model

The conceptual site model (CSM) takes into consideration the potential distribution(s) of contaminants with respect to the property and anticipated fate and transport characteristics of contaminants in the setting being assessed. The CSM further summarizes the receptors (human and ecological) and potential exposure pathways to regulated contaminants discovered in the Site subsurface (soil, groundwater, and soil vapor). Human exposure to contaminants on the Subject Property is evaluated according to the type and extent of exposure expected based on the Site's current and reasonable future use. ODEQ publishes RBCs for commonly discovered contaminants (ODEQ, 2018). The RBCs are calculated for varying exposure pathways and scenarios, and are conservative estimates of protective levels of contaminant concentrations in soil, groundwater, and air.

## 5.1 Sources

The sources of contaminant concentrations on the Subject Property include the potential for a release of petroleum products to the soil and groundwater from historical on-site automotive repair and operation of an UST system used to dispense fuels.

## 5.2 Potential Exposure Pathways and Receptors

Current and likely future land uses according to zoning regulations or known redevelopment plans were used to develop a model describing potential exposure pathways on the Subject Property. The Subject Property is currently an unoccupied building originally constructed as an automotive repair and gasoline filling station facility, zoned for commercial use, located in an area with a mix of residential and occupational uses on adjoining and nearby properties. According to Klamath County zoning ordinance, the Site's commercial zoning class allows for the following uses:

- Retail trade establishments such as food stores, drug stores, hardware stores, furniture stores, appliance sales, equipment sales, automobile sales, or clothing sales;
- Business, governmental or professional office;
- Service commercial establishment such as motel, gasoline service station or restaurant;
- Financial institution;
- Personal and business service such as barber shop, tailoring shop, printing shop, laundry or dry cleaning establishment;
- Commercial amusement such as a bowling alley or theater;
- Similar uses as authorized by the city council;

Therefore, potential human receptors on the Site and on nearby/off-Site properties could include residential, occupational, construction workers, and excavation workers.

The exposure pathways for the Site and a determination if said pathways are considered complete are summarized in the following table:

| Pathway | Potential Receptor | Complete Pathway? | Basis for selection/exclusion |
|---|---|---|---|
| **SOIL** | | | |
| Ingestion, dermal contact,and inhalation | Residential | No | There are no contaminant concentrations exceeding residential ingestion/dermal contact/inhalation RBCs. |

| Pathway | Potential Receptor | Complete Pathway? | Basis for selection/exclusion |
|---|---|---|---|
| | Occupational | No | There are no contaminant concentrations exceeding occupational ingestion/dermal contact/inhalation RBCs. |
| | Construction worker | No | There are no contaminant concentrations exceeding construction worker ingestion/dermal contact/inhalation RBCs. |
| | Excavation worker | No | There are no contaminant concentrations exceeding excavation worker ingestion/dermal contact/inhalation RBCs. |
| Vapor intrusion into buildings and outdoor air | Residential | No | There are no contaminant concentrations exceeding residential or occupational vapor intrusion RBCs. |
| | Occupational | No | |
| Leaching to groundwater | Residential | No | Lead was detected above the residential and occupational leaching to groundwater RBC. However, the leaching to groundwater pathway is incomplete on the Subject Property and Locality of the Facility based on empirical groundwater data collected from the Site, and the availability of municipal drinking water to the Site and surrounding area. |
| | Occupational | No | |
| **GROUNDWATER** | | | |
| Ingestion and inhalationfrom tap water | Residential | No | The groundwater pathway is incomplete at the Subject Property and in the Locality of the Facility due to the availability of municipal drinking water to the Site and surrounding area. |
| | Occupational | No | |
| Vapor intrusion into buildings and outdoor air | Residential | No | There are no contaminant concentrations exceeding residential or occupational vapor intrusion RBCs. |
| | Occupational | No | |
| Groundwater in excavation | Construction and excavation worker | No | There are no contaminant concentrations exceeding occupational groundwater in excavation RBCs. |

Note: Yes = Pathway is complete; No = Pathway is incomplete; Potential = Pathway may be potentially complete in the future

## 5.3 Risk-Based Screening of Laboratory Analytical Data

In order to evaluate the risk posed to human health and the environment, the soil and groundwater analytical data collected during this assessment was compared to the generic RBCs developed by ODEQ.

### 5.3.1 Soil

#### *5.3.1.1 Direct Contact (Ingestion, Dermal Contact, and Inhalation)*

**VOC**, **GRO**, **DRO, RRO**, and **RCRA 8 metal** constituents with reported concentrations above laboratory method detection limits do not exceed direct contact RBCs in soil samples collected from the Site.

#### *5.3.1.2 Vapor Intrusion into Buildings and Volatilization into Outdoor Air*

Concentrations of **VOC**s in soil samples do not exceed vapor intrusion into buildings or volatilization into outdoor air RBCs.

#### *5.3.1.3 Leaching to Groundwater*

**Lead** concentrations in the soil samples collected from B-2, B-3, B-6, and B-7 exceed the leaching to groundwater RBC of 30 milligrams per kilogram; however, lead was not reported above laboratory reporting limits in groundwater samples collected from the Site, with the exception of TMW-3 where lead was reported at 26.7 µg/L. The leaching to groundwater pathway is incomplete on the Subject Property and Locality of the Facility based on the empirical groundwater data from the Site and the availability of municipal drinking water to the Subject Property and surrounding area.

### 5.3.2 Groundwater

#### *5.3.2.1 Direct Contact (Ingestion and Inhalation)*

Concentrations of analyzed constituents do not exceed direct contact RBCs.

#### *5.3.2.2 Vapor Intrusion into Buildings and Volatilization into Outdoor Air*

Concentrations of analyzed constituents do not exceed volatilization to outdoor air or vapor intrusion into buildings RBCs.

#### *5.3.2.3 Groundwater in Excavation*

Concentrations of analyzed constituents do not exceed groundwater in excavation RBCs.

# 6 Discussion of Findings

## 6.1 Recognized Environmental Conditions

Based on the results of this assessment, the recognized environmental conditions and non-scope considerations discussed in the previous Phase I ESA appear to have been evaluated. No additional RECs were encountered during this investigation.

## 6.2 Affected Media

### 6.2.1 Soil Impacts

**Lead** concentrations reported in soil samples B-2, B-3, B-6, and B-7 exceed the residential and occupational leaching to groundwater RBC; however, no lead concentrations were reported above laboratory reporting limits with the exception of TMW-3 at 26.7 µg/L. Therefore, the general absence of lead in groundwater samples collected from the Site and the availability of municipal drinking water to the surrounding area mitigates the risk of lead leaching to groundwater.

### 6.2.2 Groundwater Impacts and Shallow Depth to Groundwater

Groundwater samples did not contain concentrations of analyzed constituents exceeding applicable residential and occupational RBCs.

Groundwater was observed across the Site at approximately 10 feet bgs.

### 6.2.3 Debris Characterization

White texture with paint and white joint compound were identified as asbestos-containing and the drywall on which they were found is considered a friable material. Painted building materials from the debris pile were collected and analyzed for lead using the TCLP. TCLP results were below laboratory reporting limits. The debris/rubble pile equates to approximately 200 cubic yards, and should be disposed of as regulated asbestos waste in accordance with federal, state, and local guidelines.

## 6.3 Vapor Intrusion Screening

Based on groundwater analytical results, the potential for vapor intrusion and/or encroachment is not a concern for the Subject Property’s current or future developed status.

# 7 Phase II ESA Conclusions & Recommendations

Cardno has completed a Phase II ESA for the former Markwardt Brothers Garage property, located northeast of the North 1st Avenue and West Chocktoot Street intersection, in Chiloquin, Oregon. The Phase II ESA was conducted to determine if the RECs identified by Cardno in the May 2021 Phase I ESA have impacted soil, groundwater, or vapor conditions at the Site. In order to address these RECs, a series of soil borings and temporary monitoring wells were installed in pre-determined locations. Soil and/or groundwater samples were submitted for laboratory analysis from each of the borings.

The soil and groundwater samples were selectively analyzed for VOCs, SVOCs, RCRA 8 metals, PCBs, GRO, DRO, and RRO. With the exception of lead in soil samples collected from borings B-2, B-3, B-6, and B-7, analyzed constituents were not present at concentrations exceeding their respective RBCs. Based on the aforementioned results of this Phase II ESA and the Beneficial Land and Water Use completed in association with this, Cardno did not discover a complete exposure pathway with respect to hazardous substance or petroleum product impacts to soil or groundwater.

Due to the potential for on-Site UST(s), lifts, and oil-change pit to contain remnant petroleum products, Cardno recommends the following actions to both facilitate redevelopment/reuse efforts on the Site and to protect future construction or excavation workers if these features are inadvertently encountered, or for future Site occupants in the event they result in a future release to the Site subsurface:

- Based on the GPR report provided by GPR Data, the area of the potential UST anomaly should be further investigated. If a UST is discovered, said UST should be decommissioned and reported in accordance with ODEQ guidelines;
- The potential for an additional heating oil UST in the Subject Property's east area (building interior east wall) should be further evaluated by installing a test pit/exploratory excavation, and if confirmed, the UST should be decommissioned in accordance with ODEQ guidelines;
- The in-ground hydraulic lifts and oil-change pit should be decommissioned by removal;
- Any concrete or soil removed from the Site should be characterized and directed to an appropriately permitted landfill for disposal;
- The debris/rubble pile should be characterized as regulated asbestos waste, and should be removed from the Site by a qualified asbestos abatement contractor in compliance with federal, state, and local regulations.

# 8 Qualifications/Signatures of Environmental Professional(s)

***Prepared by:***

I declare that I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10 and that 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 further certify that in my professional judgment, this report meets the general requirements of *ASTM Method E1903-19, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

for Cardno

W. Ashton Smithwick
Geologist I

Date: November 2021

***QA/QC by:***

I declare that I meet the definition of Environmental Professional as defined in 40 CFR Part 312.10 and that 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 further certify that in my professional judgment, this report meets the general requirements of *ASTM Method E1903-19, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

for Cardno

Keri L. Chappell, R.G.
Project Geologist

Date: November 2021

REGISTERED OREGON KERI LYNN CHAPPELL Exp 11/1/22 G 2130 GEOLOGIST

for Cardno

Keith Ziobron, PE
Senior Principal

Date: November 2021

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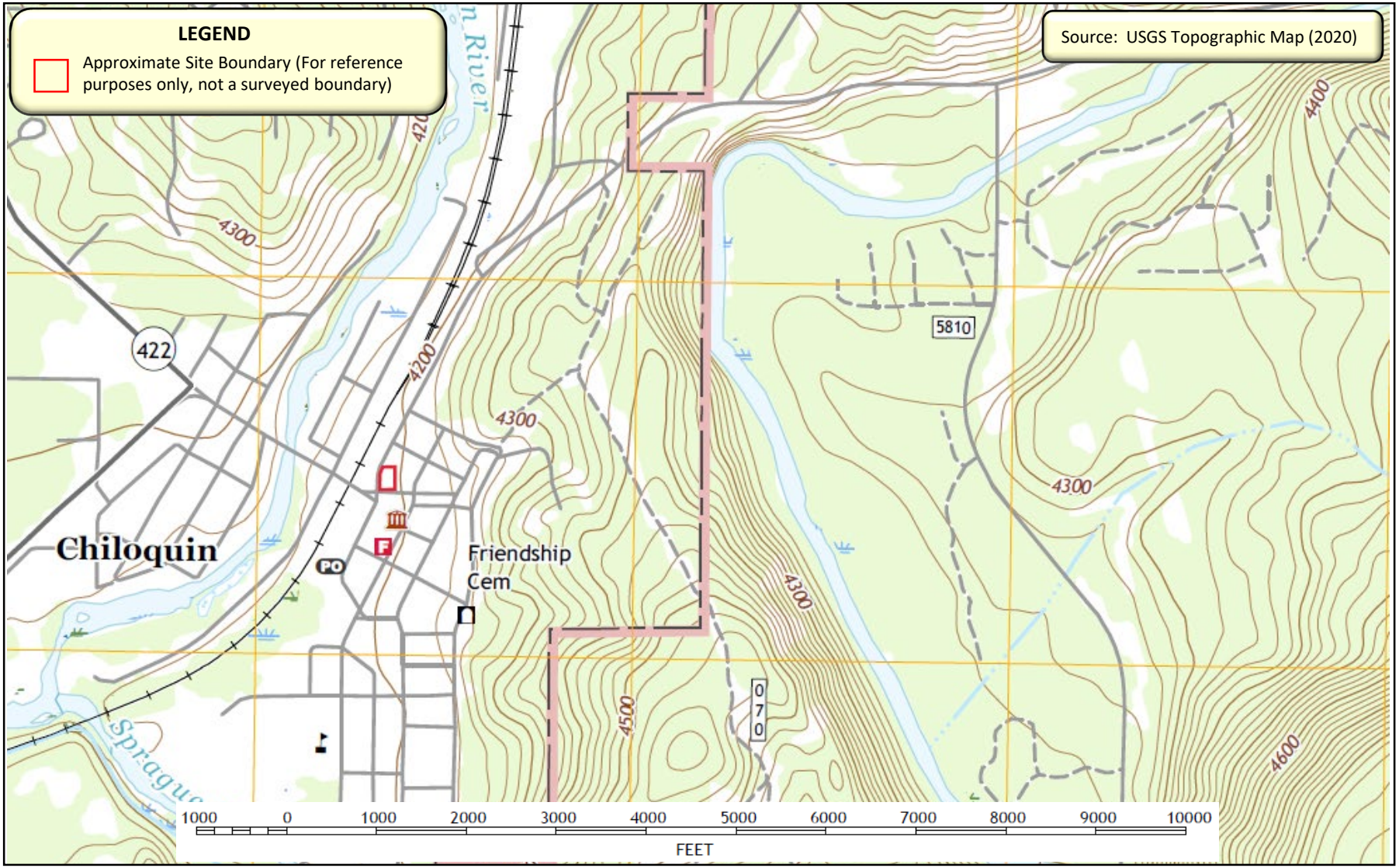
FORMER MARKWARDT
BROTHERS GARAGE

# FIGURES




Cardno
Shaping the Future

*"This is not a map of survey."*

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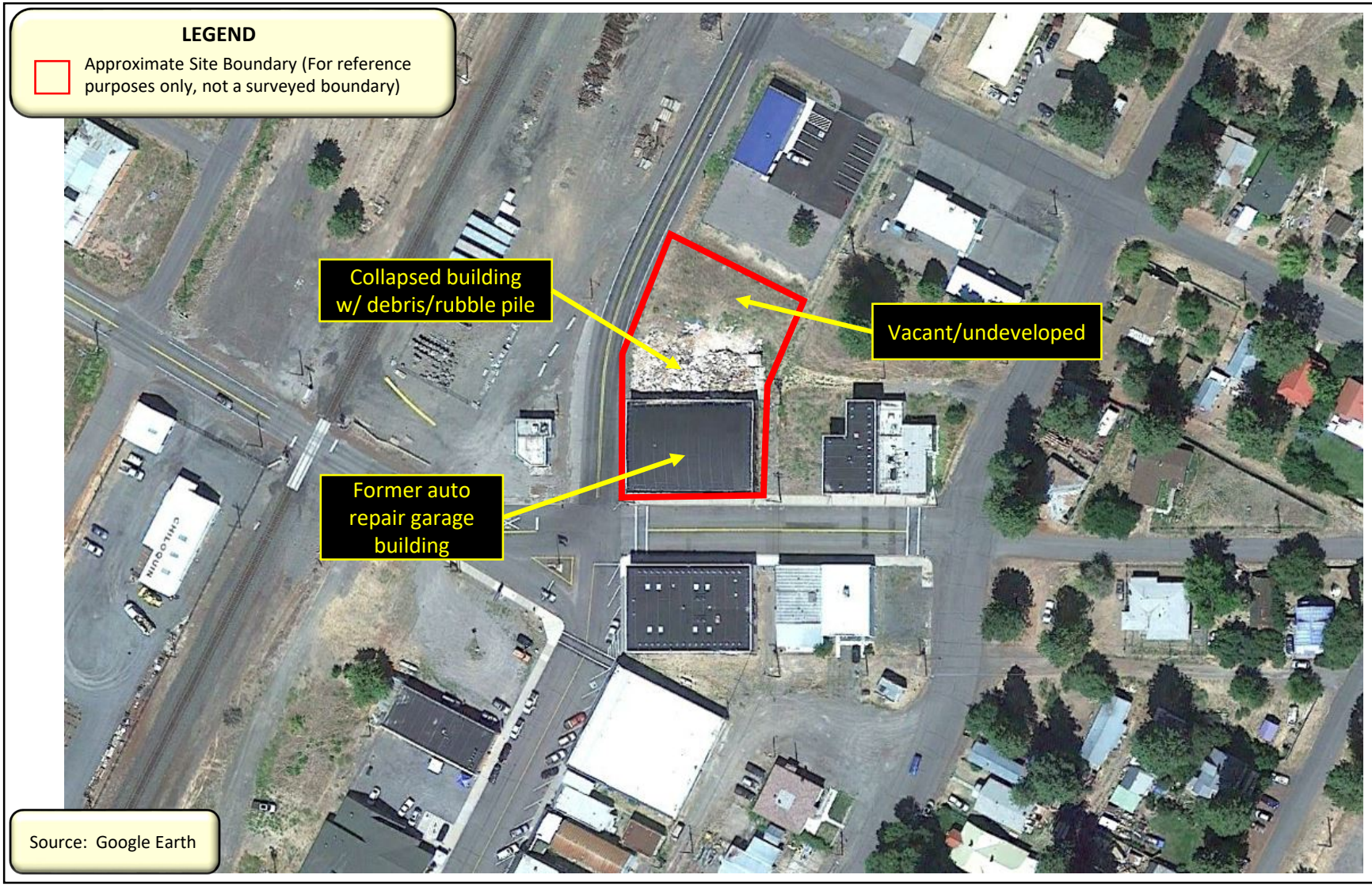
**Phase II ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 1**
**Site Vicinity Map**

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*This is not a map of survey.*

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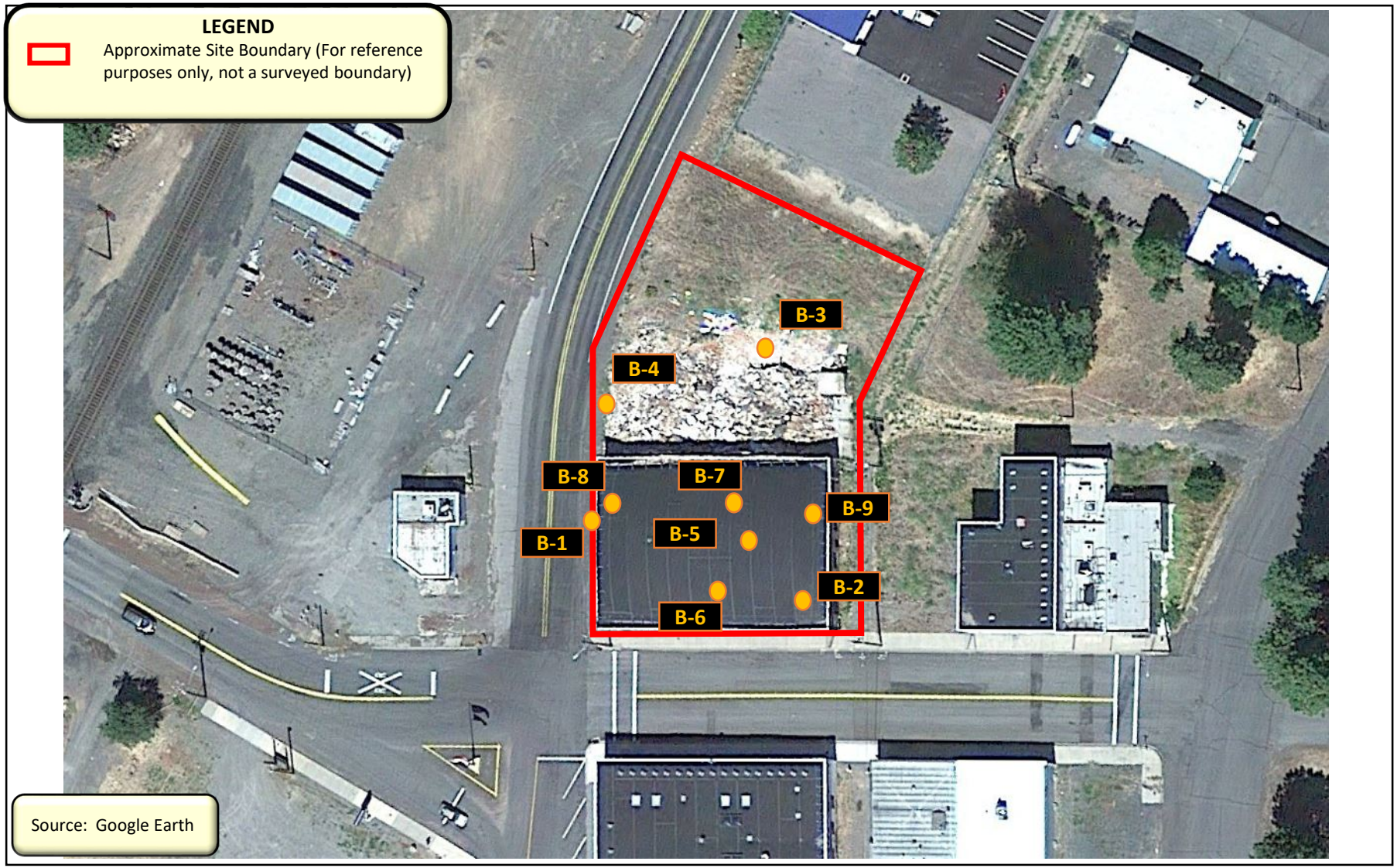
Map not scaled

**Phase II ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 2**
**Site Boundary Map**

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Shaping the Future

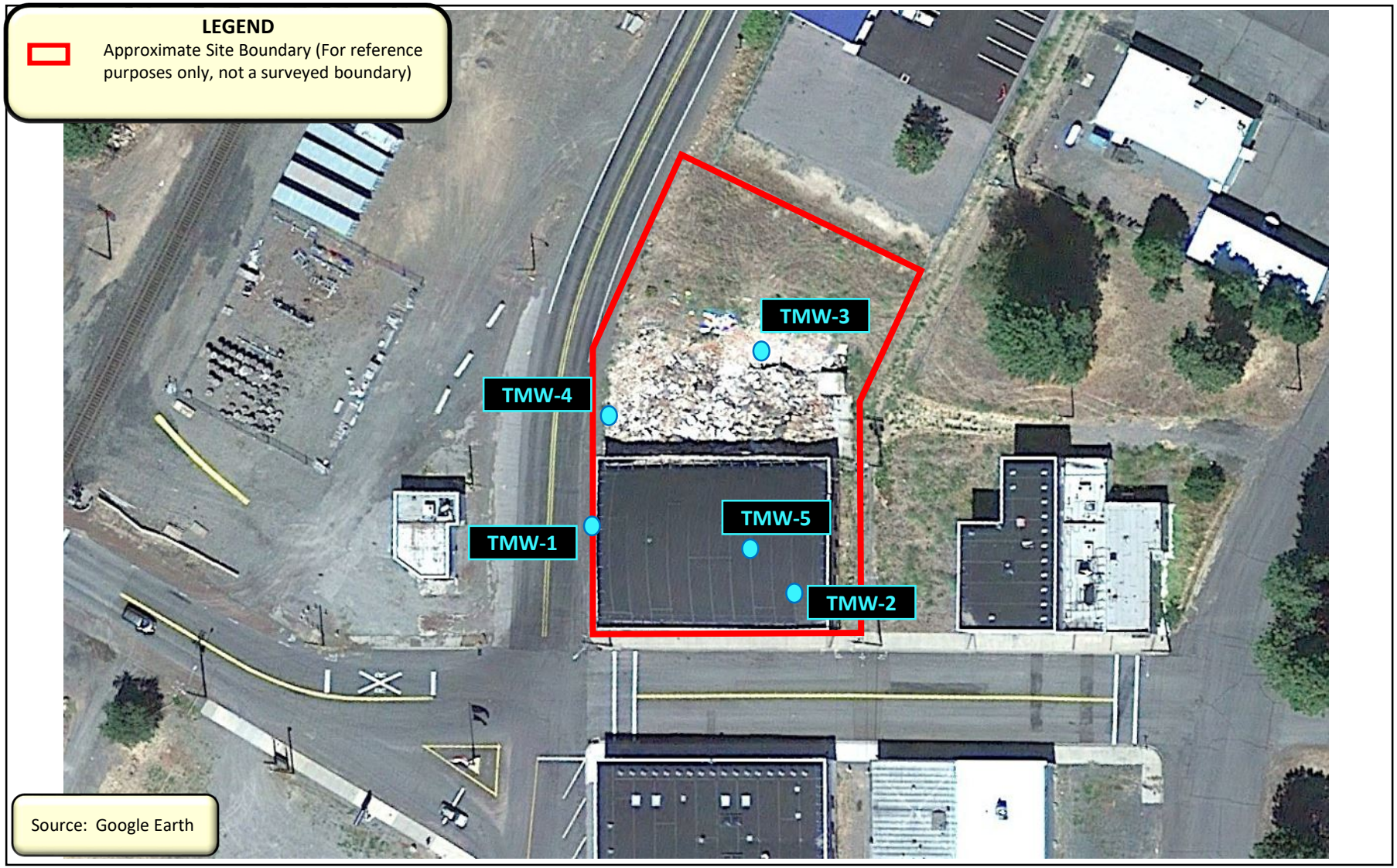
*This is not a map of survey.*

N

Map not scaled

**Phase II ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 3**
**Soil Boring Location Map**

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*This is not a map of survey.*

N

Map not scaled

**Phase II ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 4**
**Temporary Monitoring Well Location Map**

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*This is not a map of survey.*

N

Map not scaled

**Phase II ESA**
**Former Markwardt Brothers Garage**
**Chiloquin, Klamath County, Oregon**
**Cardno Project # CHILOQ100**

**Figure 5**
**Potential UST Location Map**

FORMER MARKWARDT
BROTHERS GARAGE

# TABLES

## TABLE 1: SOIL ANALYTICAL SUMMARY

## FORMER MARKWARDT BROTHERS GARAGE
## CHILOQUIN, KLAMATH COUNTY, OREGON

| | | | | | | | | | | | Sample Identification | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Soil Boring | B-1 | B-2 | B-3 | B-4 | B-5 | B-6 | B-7 | B-8 | B-9 | B-6 DUP |
| | | | | | | | | | | Sample Depth (feet bgs) | 2-4 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 0-2 | 2-4 | 2-4 | 0-2 |
| | | | | | | | | | | Sample Date | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 | 08.17.2021 |
| | Residential Receptor Scenario | | | | Occupational Receptor Scenario | | | | Construction Worker Receptor Scenario | Excavation Worker Receptor Scenario | Results presented in mg/kg or parts per million (DETECTIONS ONLY) | | | | | | | | | |
| **RCRA Metals** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCss** | | | | | | | | | | |
| Barium | **15,000** | NV | NV | * | **220,000** | NV | NV | * | **69,000** | >Max | 198 | 182 | 183 | 167 | 202 | 156 | 199 | 170 | 195 | NA |
| Chromium | **120,000** | NV | NV | * | >Max | NV | NV | * | **530,000** | >Max | 26.8 | 18.0 | 13.9 | 16.9 | 24.0 | 15.8 | 14.1 | 18.7 | 17.4 | NA |
| Lead | **400** | NV | NV | **30** | **800** | NV | NV | **30** | **800** | **800** | 1.85 | **119** | **54.1** | 4.35 | 2.11 | **36.8** | **58.9** | 1.20 | 14.0 | NA |
| Mercury | **23** | NV | NV | * | **350** | NV | NV | * | **110** | **2,900** | *<0.0569* | *<0.0558* | 0.0536 | *<0.0547* | *<0.0587* | *<0.0537* | *<0.0544* | *<0.0548* | *<0.0537* | NA |
| **NWTPH-Dx** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCss** | Results presented in mg/kg or parts per million (DETECTIONS ONLY) | | | | | | | | | |
| Diesel Range Organics (C12 - C24) | **1,100** | >Max | >Max | **9,500** | **14,000** | >Max | >Max | >Max | **4,600** | >Max | *<5.69* | 13.0 | *<5.05* | *<5.47* | *<5.87* | 111 | *<5.44* | *<5.48* | *<5.37* | NA |
| Residual Range Organics (>C24) | **2,800** | >Max | >Max | >Max | **36,000** | >Max | >Max | >Max | **11,000** | >Max | *<14.2* | 75.1 | 17.6 | *<13.7* | *<14.7* | 564 | *<13.6* | *<13.7* | *<13.4* | NA |
| **VOCs** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCso** | **RBCsi** | **RBCsw** | **RBCss** | **RBCss** | Results presented in mg/kg or parts per million (DETECTIONS ONLY) | | | | | | | | | |
| 1,2,4-Trimethylbenzene | **430** | >Csat | **140** | **10** | **6,900** | >Csat | >Csat | **48** | **2,900** | **81,000** | *<0.0134* | *<0.0143* | 0.0176 | *<0.0130* | *<0.0186* | *<0.0169* | *<0.0169* | *<0.0149* | *<0.0163* | *<0.0164* |
| Xylenes (total) | **1400** | >Csat | **160** | **23** | **25,000** | >Csat | >Csat | **100** | **20,000** | **560,000** | *<0.0174* | *<0.0186* | 0.0581 | *<0.0170* | *<0.0242* | *<0.0218* | *<0.0219* | *<0.0194* | *<0.0211* | *<0.0214* |
| **SVOCs** | **No SVOC constituents reported above laboratory method detection limits** | | | | | | | | | | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | NA |
| **NWTPH-Gx** | **NWTPH-Gx not reported above laboratory method detection limits** | | | | | | | | | | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | BRL | NA |
| **PCBs** | **No PCB constituents reported above laboratory method detection limits** | | | | | | | | | | NA | NA | NA | NA | BRL | BRL | BRL | NA | NA | NA |

**RBC** = Risk-Based Concentration screening value

**RBCss** = Soil Ingestion, Dermal Contact, and Inhalation / **RBCso** = Volatilization to Outdoor Air / **RBCsi** = Vapor Intrusion into Buildings / **RBCsw** = Leaching to Groundwater

Concentrations in **bold** exceed ODEQ residential and/or occupational RBC(s)

**VOC** = Volatile Organic Compound

**SVOC** = Semi-Volatile Organic Compound

**NWTPH-Gx** = Northwest Total Petroleum Hydrocarbons - Gasoline

**NWTPH-Dx** = Northwest Total Petroleum Hydrocarbons - Diesel

**PCBs** = Polychlorinated Biphenyls

**RCRA** = Resource Conservation Recovery Act

**mg/kg** = milligrams per kilogram

**B** = Soil Boring

**bgs** = below ground surface

**BRL** = Below Reporting Limits

**NA** = Not Analyzed

**NV** = Non-Volatile chemical (no RBC for volatilization pathway)

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.

>Csat = The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of Csat indicate that free product might be present.

* = Leaching-to-Groundwater RBCs are not provided in ODEQ RBC generic tables for inorganic chemicals. This pathway is not of concern, and site-specific leaching tests are not recommended.

## TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

## FORMER MARKWARDT BROTHERS GARAGE
## CHILOQUIN, KLAMATH COUNTY, OREGON

| RCRA Metals | Temporary Monitoring Well | | | | | Sample Identification | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | TMW-1 | TMW-2 | TMW-3 | TMW-4 | TMW-5 | TMW-3 DUP |
| | Sample Date | | | | | 08.18.2021 | 08.18.2021 | 08.18.2021 | 08.18.2021 | 08.18.2021 | 08.18.2021 |
| | Residential Receptor Scenario | | Occupational Receptor Scenario | | Construction & Excavation Worker Receptor Scenario | Results presented in µg/L or parts per billion (DETECTIONS ONLY) | | | | | |
| | RBCwo | RBCwi | RBCwo | RBCwi | RBCwe | | | | | | |
| Barium | NV | NV | NV | NV | >S | 25.6 | 60.9 | 38.3 | 9.10 | 91.9 | NA |
| Chromium | NV | NV | NV | NV | **9,400** | < *10.0* | 11.8 | < *10.0* | < *10.0* | 14.0 | NA |
| Lead | NV | NV | NV | NV | >S | < *6.0* | < *6.0* | 26.7 | < *6.0* | < *6.0* | NA |
| **NWTPH-Gx** | **RBCwo** | **RBCwi** | **RBCwo** | **RBCwi** | **RBCwe** | **Results presented in µg/L or parts per billion (DETECTIONS ONLY)** | | | | | |
| Gasoline Range Organics (C7 - >C12) | >S | **22,000** | >S | >S | **14,000** | 159 B | 115 B | < *100* | < *100* | < *100* | NA |
| **VOCs** | **No VOC constituents reported above laboratory method detection limits** | | | | | BRL | BRL | BRL | BRL | BRL | BRL |
| **NWTPH-Dx** | **No NWTPH-Dx constituents reported above laboratory method detection limits** | | | | | BRL | BRL | BRL | BRL | BRL | NA |
| **PCBs** | **No PCB constituents reported above laboratory method detection limits** | | | | | NA | NA | NA | NA | BRL | NA |
| **SVOCs** | **No SVOC constituents reported above laboratory method detection limits** | | | | | BRL | BRL | BRL | BRL | BRL | NA |

**RBC** = Risk-Based Concentration screening value

**RBCwo** = Volatilization to Outdoor Air / **RBCwi** = Vapor Intrusion into Buildings / **RBCwe** = Occupational Contact with Groundwater in Excavation

Concentrations in **bold** exceed ODEQ residential and/or occupational RBC(s)

**VOC** = Volatile Organic Compound

**SVOC** = Semi-Volatile Organic Compound

**NWTPH-Gx** = Northwest Total Petroleum Hydrocarbons - Gasoline

**NWTPH-Dx** = Northwest Total Petroleum Hydrocarbons - Diesel

**PCBs** = Polychlorinated Biphenyls

**RCRA** = Resource Conservation Recovery Act

**µg/L** = micrograms per liter

**TMW** = Temporary Monitoring Well

**bgs** = below ground surface

**BRL** = Below Reporting Limits

**NA** = Not Analyzed

**NV** = Non-Volatile chemical (no RBC for volatilization pathway)

**B** = Analyte present in associated method blank

>S = The constituent RBC for this pathway is calculated as greater than constituent solubility in groundwater (i.e. present in subsurface as undissolved or "free product"/"Non-Aqueous Phase Liquid")

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## TABLE 3: SUMMARY OF BULK SAMPLE ANALYSIS

## FORMER MARKWARDT BROTHERS GARAGE
## CHILOQUIN, KLAMATH COUNTY, OREGON

| HA ID | Date | HA Description | Material Location | Percent and Type of Asbestos Detected[1] | Estimated Quantity | Type of ACM[2] | Friability[3] | Physical Condition |
|---|---|---|---|---|---|---|---|---|
| RP-01-01 | 8/18/21 | Shingles | Rubble pile (east) | NAD | N/A | N/A | NF | Poor |
| RP-01-02 | 8/18/21 | Shingles | Rubble pile (north) | NAD | N/A | N/A | NF | Poor |
| **RP-02-01a** | **8/18/21** | **Drywall (White texture w/ paint)** | **Rubble pile (west)** | **2% CH** | | **Misc. Cat 1** | **F** | **Poor** |
| RP-02-01b | 8/18/21 | Drywall (Cream tape) | Rubble pile (west) | NAD | N/A | N/A | F | Poor |
| **RP-02-01c** | **8/18/21** | **Drywall (White joint compound)** | **Rubble pile (west)** | **2% CH** | | **Misc. Cat 1** | **F** | **Poor** |
| RP-02-01d | 8/18/21 | Drywall (White drywall w/ brown paper) | Rubble pile (west) | NAD | N/A | N/A | F | Poor |
| RP-02-02a | 8/18/21 | Drywall (Cream tape) | Rubble pile (north) | NAD | N/A | N/A | NF | Poor |
| **RP-02-02b** | **8/18/21** | **Drywall (White joint compound)** | **Rubble pile (north)** | **2% CH** | | **Misc. Cat 1** | **F** | **Poor** |
| RP-02-02c | 8/18/21 | Drywall (White drywall w/ brown paper) | Rubble pile (north) | NAD | N/A | N/A | NF | Poor |
| RP-03-01 | 8/18/21 | Gray caulk | Rubble pile (west) | NAD | N/A | N/A | NF | Poor |
| RP-03-02 | 8/18/21 | Gray caulk | Rubble pile (east) | NAD | N/A | N/A | NF | Poor |

Notes:
(1) CH = Chrysotile; AM = Amosite; CR = Crocidolite; AN = Anthophyllite; AC = Actinolite; NAD = No Asbestos Detected
(2) Misc = Miscellaneous; TSI = Thermal System Insulation; SM= Surfacing Material
(3) F = Friable; NF - Non friable. For ACMs only: I = Non-Friable Category I; II = Non-Friable Category II
NM - not measured LF = linear feet PACM = Presumed Asbestos-Containing Materials
n/a - not applicable SF = square feet CY = Cubic Yards
Samples in **Bold** and yellow highlight contain asbestos above the regulatory threshold of 1%

## TABLE 4: SUMMARY OF TOXICITY CHARACTERISTIC LEACHING PROCEDURE

## FORMER MARKWARDT BROTHERS GARAGE
## CHILOQUIN, KLAMATH COUNTY, OREGON

| Sample ID | Date | Location | Result (Lead) | Estimated Quantity | Physical Condition |
|---|---|---|---|---|---|
| RP-01 | 8/18/21 | Rubble pile (east) | BRL | N/A | Deteriorated |
| RP-02 | 8/18/21 | Rubble pile (west) | BRL | N/A | Deteriorated |

Notes:

**NM** = not measured

**BRL** = Below Laboratory Reporting Limit

**N/A** = not applicable

## TABLE 5: GROUNDWATER DEPTH SUMMARY

## FORMER MARKWARDT BROTHERS GARAGE
## CHILOQUIN, KLAMATH COUNTY, OREGON

| Well Number | Measurement Date | Depth of Well (ft btc) | Depth to Water (ft btc) |
|---|---|---|---|
| TMW-1 | 8/18/2021 | 13.00 | 10.51 |
| TMW-2 | 8/18/2021 | 14.47 | 10.11 |
| TMW-3 | 8/18/2021 | 11.43 | 9.59 |
| TMW-4 | 8/18/2021 | 14.80 | 10.62 |
| TMW-5 | 8/18/2021 | 13.28 | 10.08 |

ft btc = Feet Below Top of Casing

FORMER MARKWARDT
BROTHERS GARAGE

APPENDIX

# J

RESUMES

Please Respect the Environment

## About Cardno

Cardno is an ASX-200 professional infrastructure and environmental services company, with expertise in the development and improvement of physical and social infrastructure for communities around the world. Cardno's team includes leading professionals who plan, design, manage, and deliver sustainable projects and community programs. Cardno is an international company listed on the Australian Securities Exchange [ASX:CDD].

## Cardno Zero Harm

Cardno ZERO HARM EVERY JOB. EVERY DAY.

At Cardno, our primary concern is to develop and maintain safe and healthy conditions for anyone involved at our project worksites. We require full compliance with our Health and Safety Policy Manual and established work procedures and expect the same protocol from our subcontractors. We are committed to achieving our Zero Harm goal by continually improving our safety systems, education, and vigilance at the workplace and in the field. Safety is a Cardno core value and through strong leadership and active employee participation, we seek to implement and reinforce these leading actions on every job, every day.

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