




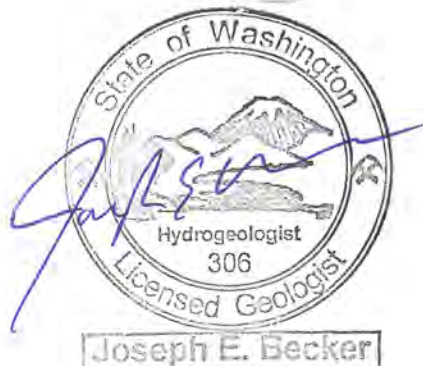
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CONFEDERATED TRIBES OF
THE CHEHALIS RESERVATION
2729 93RD AVENUE SOUTHWEST
CHEHALIS, WASHINGTON
PHASE I AND II
ENVIRONMENTAL SITE ASSESSMENT
NOVEMBER 13, 2013

by



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Environmental Services Manager



Phase I Environmental Site Assessment
2729 93rd Avenue Southwest
Chehalis, Washington

November 13, 2013

Prepared for:

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DECLARATIONS

"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional* as defined in "312.21 of 40 CFR part 312."

"I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I performed and/or developed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR part 312."

*A person who does not qualify as an Environmental Professional may assist in the conduct of all appropriate inquiries in accordance with ASTM E1527-05 if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional when conducting such activities.



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Environmental Services Manager

Confederated Tribes of the Chehalis Reservation
2729 93rd Avenue Southwest, Olympia, Washington
Phase I and II Environmental Site Assessment
November 13, 2013

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Executive Summary

Robinson Noble, Inc. has prepared a Phase I and limited Phase II Environmental Site Assessment of tax parcel 12721210200 located in Thurston County, Washington. The address assigned to the property is 2729 93rd Avenue Southwest, Olympia, Washington.

This Phase I Environmental Site Assessment (ESA) was prepared in general accordance with ASTM Standard E1527-05. It was prepared using generally accepted professional practices, and observations and findings generated for this project are based on information limited to "reasonably ascertainable sources." This ESA was not intended to be an exhaustive search for all possible environmental issues. It was designed to utilize reasonably ascertainable information in order to determine whether recognized environmental conditions (as defined by ASTM) warranting additional investigation are present. The Phase I ESA is intended as a step to qualify the report's user for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. The scope of services for the ESA included reviewing the physical setting of the property, reviewing government databases for potential environmental risks to the property, conducting historical research concerning the property, and conducting interviews with people knowledgeable about the property. The work was completed by, or under, the direction of an environmental professional as defined in ASTM E1527-05.

The current land use of the subject property is commercial and is currently occupied by the Restover Truckstop. The site is comprised of commercial vehicle fueling, retail gasoline sales, a convenience store, a restaurant, and a motel. Neighboring and adjoining parcels include vacant unimproved land and an Interstate 5 interchange. Our observations of previous environmental remediation and of spillage and pavement staining, which indicate that operational practices may be contributing to releases in to the environment are existing or potential recognized environmental conditions. No recognized environmental conditions were found on adjoining properties during the inspection.

Historical sources indicate the subject property was originally developed with a truck stop including a convenience store, a restaurant, a motel, and a fueling station in 1969. The subject remains in essentially this configuration.

A database search was conducted to identify known sites within a radius of up to one mile from the subject property that may have the potential to impact the subject with contamination. The subject property is listed on the databases searched indicating that it has been impacted by petroleum products and related compounds. These issues have not yet achieved no-further-action (NFA) status.

Robinson Noble performed this Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-05. Any exceptions to, or deletions from, this practice are described in Section 1.2 of this document. This assessment has not revealed evidence of recognized environmental conditions except for:

- A large historical release of gasoline and diesel-range petroleum hydrocarbons has occurred at the site. It has been the subject of ongoing investigation and remediation since approximately 1985. Although interim remedial actions have been completed, the release has not yet received NFA status.

- The presence of an environmental covenant containing activity and use limitations that must be complied with unless further assessment and cleanup is completed to the extent allowing their removal.

A limited subsurface investigation was completed concurrently with the Phase I ESA portion of this report. The investigation was designed to assess the extent of contamination remaining at the site from the known historical release. The analytical findings indicate that significant soil and groundwater impacts remain that will require remediation.

Confederated Tribes of the Chehalis Reservation
2729 93rd Avenue Southwest, Olympia, Washington
Phase I and II Environmental Site Assessment
November 13, 2013

1.0 Introduction

1.1 Scope of Services and Purpose of Report

This Phase I Environmental Site Assessment (ESA) was prepared in general accordance with ASTM Standard E1527-05 and authorized by the Confederated Tribes of the Chehalis Reservation on October 30, 2013. A copy of a detailed scope of services is attached as Appendix G of this report. The noted scope of services was developed based on standard industry practices and ASTM Standard E1527-05. Unless an item is specifically addressed in the noted scope of services and discussed herein, it should be assumed that it was not included in the scope of work for this project. In addition to the ASTM standard, we have incorporated a limited subsurface investigation (one non-standard ASTM E1527-05 consideration) into this report as outlined in the scope of services.

This Phase I ESA was prepared for the subject site located at 2729 93rd Avenue Southwest, Olympia, Washington. It was prepared as part of pre-acquisition due-diligence and will be used to meet environmental assessment requirements for approval of a Fee-to-Trust application to the U.S. Department of the Interior, Bureau of Indian Affairs (BIA).

1.2 Conditions and Limitations

This project was generally completed within the standard scope defined by ASTM. The contractual agreement between the client and Robinson Noble did not contain any special conditions or limitations except that we were not permitted to access in the interior of the structures or interview personnel on site. As outlined in ASTM E1527-05, the observations and findings generated for this project were based on information limited to "reasonably ascertainable sources."

This report was prepared using generally accepted professional practices. The nature of the ESA process requires that information generated, managed, and/or controlled by third parties is utilized. We believe that the sources utilized are accurate; however, we cannot guarantee that the third-party information is free of error. While we warrant that the opinions and conclusions drawn from information gathered during this study are based on sound professional judgment, we reserve the right to modify any opinion, conclusion, and/or recommendation in the event new, revised or different information becomes available. Unless specifically stated herein, no other warranty, expressed or implied, is made.

This ESA is not intended to be an exhaustive search for all possible environmental issues. It was designed to utilize reasonably ascertainable information in order to determine whether recognized environmental conditions (as defined by ASTM) warranting additional investigation are present. However, according to ASTM 1527-05 "no environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property." This ESA is intended to reduce uncertainty regarding recognized environmental conditions for the subject property, but it cannot eliminate all uncertainty.

The Phase I ESA is intended as a step to qualify the report's user for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. It constitutes a portion of the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined by 42 U.S.C. §9601. The scope of services noted in Section 1.1 was completed by, or under the direction of, an environmental professional as defined in ASTM E1527-05.

1.3 Client and Right of Reliance

As outlined in the PSA governing this project, the client is the Confederated Tribes of the Chehalis Reservation. An additional right of reliance is granted to the Department of Interior, Bureau of Indian Affairs. This report was prepared for the use of the client for the purposes outlined herein and in contract documents under which the project was completed.

Reliance by any party other than the Confederated Tribes of the Chehalis Reservation or the Bureau of Indian Affairs is strictly at their own risk. Additional entities may be granted the right to rely on this report, subject to the approval of the client and agreement by the relying party regarding the scope of services under which this report was prepared. Such additional rights-of-reliance may only be granted in writing either by specific mention in this section or in a letter of reliance prepared and signed by Robinson Noble.

2.0 Previous Reports

We reviewed a Remedial Action Soil Excavation Groundwater Monitoring Well Installation and Sampling Report dated August 22, 2013 prepared by Associated Environmental Group, LLC. This report documents the decommissioning of an active groundwater monitoring well followed by limited excavation of impacted soils, the application of oxygen release compound (ORC®) compound, and replacement of the monitoring well followed by sampling of the new well. The work documented in the report is the latest in a series of interim actions that have occurred at the site since 1985. Additional detail is provided in Section 4.0. The report implies the monitoring of the new well represents the last stage of confirmational monitoring that will be needed for site closure. Our review of documents discussed in Section 4.0, along with the results of our subsurface investigation, indicates that this conclusion is unlikely.

3.0 Physical Setting

3.1 Site Description

3.1.1 Legal and Location

The subject site is comprised of one parcel identified by Thurston County records as parcel number 12721210200. The address assigned to the property is 2729 93rd Avenue Southwest, Olympia, Washington. A general location map is provided as Figure 1 in Appendix A. A site diagram, indicating approximate parcel boundaries, is included in Appendix A as Figure 2. The subject consists of approximately 5.5 acres.

3.1.2 Current Property Use

The land use of the subject currently is commercial.

3.1.3 Structures and Improvements

The property is currently occupied by the Restover Truckstop, which is comprised of vehicle fueling, retail gasoline sales, a convenience store, a restaurant, and a motel. Also present is a gravel-surfaced truck-parking area.

3.2 Regional Characteristics

3.2.1 Current Adjoining Land Uses

The subject is situated in an area that is generally developed with commercial and light industrial land uses. The directly adjoining parcels are occupied by the following:

- North: vacant and residential land
- Northeast: Interstate 5
- East: Interstate 5
- Southeast: Interstate 5
- South: vacant land and an unnamed pond
- Southwest: vacant land
- West: vacant land
- Northwest: residential followed by commercial, multi-tenant light industrial

3.2.2 Topography, Geology, and Soils

The subject property is at an elevation of approximately 200 feet above sea level. The topography of the area surrounding the subject is relatively flat with a general slope to the northwest.

Drost, Ely and Lum, W.E. (2009) map the surface geology of the subject and surrounding area as Vashon recessional outwash (Qvr). These sediments are generally composed of course-grained materials comprised of sands and gravels. This unit is generally very permeable.

Soils in the area of the subject have been classified as Cagey loamy sand by the USDA web soil survey. These soils are generally associated with sandy glacial drift. This soil is typically moderately well drained.

3.2.3 Surface Water and Groundwater

There is no surface water on the subject. The nearest surface water body is an unnamed pond located directly south of the subject.

Based upon well logs obtained from the Department of Ecology for monitoring wells completed on the subject, the depth to groundwater is generally ten feet. Based on potentiometric surface maps for the aforementioned monitoring wells, the shallow groundwater flow direction on the subject is generally to the north-northwest.

3.3 Site and Surrounding Area Reconnaissance

John F. Hildenbrand, a Robinson Noble environmental scientist, completed a site reconnaissance (inspection) on November 1. The purpose of the reconnaissance was to obtain readily apparent indications of potential recognized environmental conditions as defined by ASTM Standard E1527-05. Selected photographs from the reconnaissance are attached in Appendix C. The inspection included a walkthrough of the site and a review of the surrounding properties. Also included was an inspection for possible contamination sources, including those noted below, on the site and from adjoining properties.

- storage tanks (underground and above ground)
- wells (water wells, dry wells, irrigation wells, monitor wells, etc.)
- drums or chemical storage areas
- hazardous substances, petroleum products, and unidentified containers
- pools of liquid, ponds, and surface impoundments
- maintenance or shop areas
- waste water systems
- sumps or storm drains
- interior stains or corrosion
- stained soil or pavement
- potentially PCB-containing equipment
- piles of waste or trash; solid waste
- dead or dying vegetation
- unusual odors
- other observations that in the opinion of the field investigator indicate the possible presence of conditions of concern

The site is currently occupied by three buildings consisting of a convenience store, a restaurant, and a motel. Two canopied fueling areas, one configured for standard retail fueling and one for commercial (truck) vehicles, are present.

3.3.1 Interior Observations

Due to confidentiality issues, we were unable to completely inspect the buildings. However, observations from publicly accessible areas of the convenience store and restaurant did not reveal concerns with respect to environmental conditions. No access to the motel was available.

3.3.2 Exterior Observations

As stated above, the subject includes two fueling areas along with associated access ways and parking areas, a restaurant, and a motel. Access and parking for the convenience store are asphalt paved. The fueling pads are concrete paved with covered drains that appear to be routed to oil-water separators. The standard fueling area was observed to be relatively free from staining and other evidence of spillage. However, the concrete pad was severely cracked, and it is unlikely to provide adequate protection of underlying soils should spills occur. The commercial fueling area also exhibited signs of concrete disrepair as well as areas of staining on the islands, concrete surfaces, and fuel dispensers. Parking areas, including the gravel truck parking area, did not exhibit significant staining. The concrete pad over the underground storage tanks was observed to be free from staining. It appears to be in fair condition, though cracks are evident.

We also observed the monitoring well discussed in Section 2.0 along with the area of excavation and ORC® application. The observation of these features indicates the presence of a recognized environmental condition on the property. The staining in the commercial fueling area, along with concrete disrepair, represents a potential for impact to the subject from fueling-related spills. No other conditions of concern were noted.

3.3.3 Roads

The subject is surfaced by asphalt, concrete, and gravel drive and parking surfaces. It is adjacent to asphalt-paved public roads.

3.3.4 Utilities

The site is served by an on-site water system that is regulated as a Group A Public Water system by virtue of the commercial nature of the subject. According to the Washington State Department of Health's Sentry database, the water system is categorized as a blue, which

means that it is in compliance with requirements for its current configuration and it is not approved for expansion.

The subject is also served by two on-site sewage systems, one serving the restaurant and motel and the other serving the convenience store.

3.3.5 Adjoining Properties

Adjoining properties were inspected from the adjoining right-of-ways during the site visit. These adjacent properties are unremarkable with respect to conditions of concern or recognized environmental conditions. The interiors of buildings on the adjoining properties were not inspected.

3.3.6 Data Gaps

The complete interior of the structures on the subject property was not inspected. However, based on our observations and the use of the property, we believe this data gap is not significant. The interiors of neighboring buildings were not inspected. However, based on the observed uses of these properties, we interpret this data gap is not significant. There are no other data gaps to the site and area reconnaissance.

3.3.7 Site and Surrounding Area Summary

The visible staining of concrete pads and dispensers in the commercial fueling area, combined with the disrepair of the concrete, represents a recognized environmental condition. This holds true as well for the retail-fueling island concrete, which is susceptible to allowing spills or leaks to migrate to the underlying soils. The presence of environmental remediation on the property also indicates the presence of a recognized environmental condition.

The visual inspection of the adjoining properties did not reveal any concerns defined by ASTM as a recognized environmental condition.

4.0 Government Agency Information

4.1 EDR Database Search

A database search was conducted through a private, third-party firm, Environmental Data Resources, Inc. (EDR), to identify sites of known or potential contamination within varying radii as defined by ASTM. These radii range from the target property only to up to one mile from the subject property. The database search results, including the search radii, are included in the EDR report, which is attached as Appendix D. A complete list and descriptions of the databases searched may be found in the Government Records Search/Data Currency Section of the EDR report. The absence of records should not be used as conclusive evidence that conditions do not exist. Sites may not have been reported or registered and/or may pre-exist the requirement to report.

The subject site is located at 2729 93rd Avenue Southwest, Olympia, Washington. The EDR report lists the subject site on the CSCSL, HSL, LUST, UST SPILLS, and EDR Historical Auto Station databases. These listings are a result of current (UST) and historical fueling activities and documented release(s) of petroleum products that have not yet been addressed to the point of achieving regulatory closure.

In order to further assess the nature of the listings for the subject, records maintained by the Washington Department of Ecology (Ecology) were reviewed at Ecology's headquarters office on November 5. We have requested copies of pertinent documents, but at the time of writing

this report, they have not been received. Upon receipt, they will be forwarded to the client to be appended to this report.

Based on our review of currently available documentation, it is believed that approximately 65,000 gallons of fuel was released from the site between 1975 and 1982. From 1987 to 2005, Ecology completed a series of investigative, remediation, and monitoring activities. To remediate soil and groundwater contamination, an interim action, consisting of an air-sparging/vapor extraction system (VES), was initiated in the summer of 1993. Operation of the VES was terminated in the fall of 1997 since BTEX concentrations had substantially decreased and continued operation of the system was no longer cost efficient. In late 1998 and early 1999, the VES and most of the remaining monitoring wells were decommissioned. Currently, the only well being monitored is WDOE-6AR (discussed in Section 2.0). Ecology documents reference cost-recovery efforts and payments which suggest the property may be subject to an environmental lien.

Although the interim action appears to have substantially reduced the amount of contamination, the work done to date is likely not sufficient to warrant the issuing of a no-further-action determination, and it is highly probable that additional remediation will be needed. Therefore, this represents a recognized environmental condition.

Additionally, Ecology records contain an environmental covenant establishing activity and use limitations (AULs) that must be maintained as long as the contamination remains at the site.

In addition to the subject property, the EDR report lists 13 properties/businesses with a total of 22 listed conditions falling within the ASTM standard search radii. In addition, the EDR report lists 11 unmappable (orphan) sites with listed conditions. As part of this study, where reasonably ascertainable, we determined the locations of the unmapped listed sites.

We assessed the risk to the subject property from both the mapped and unmapped listed sites. We were able to determine without further research that the listed sites pose little risk to the subject. We made this determination by reviewing site locations in relation to the estimated groundwater flow direction, reviewing the types of listings, and reviewing the reported status of the listed sites to report or register.

4.2 Local Government Records

4.2.1 County Assessor Records

According to Thurston County Assessor records, the owner of tax parcel 12721210200 is Kismet Ka Sitara LLC. These records indicate previous owners include Timothy Cosden.

4.2.2 County Auditor Records

We reviewed Thurston County Auditor records for the subject property. An environmental covenant between the current property owner and the Washington Department of Ecology was recorded in 2001. This document is discussed in Section 4.1 above.

4.2.3 Title Records and Environmental Liens or Activity and Use Limitations

Our client, the Confederated Tribes of the Chehalis Reservation, did not provide a copy of title records for the property. Title records can provide information on past owners and can potentially contain environmental liens or activity and use limitations not revealed by other sources. Without provided records, we did not review title records for the property. Based on information discussed in Section 4.1 it is possible that an environmental lien with the Washington

Department of Ecology as beneficiary exists within the title records. Thus, the absence of title review is a significant data gap.

4.3 Tribal Records

This property is not located within the historical boundary of an Indian reservation. Therefore, Tribal records most likely do not exist. However, the inability to review Tribal records is a data gap.

4.4 Data Gaps

Neither title nor Tribal records were reviewed for this assessment. However, the owner has indicated that they have reviewed title documents and found no liens or encumbrances related to environmental conditions existing on the subject. Our review of County records indicated the presence of an environmental covenant which is also discussed in Section 4.1. Also, the subject is not within the historic boundary of an Indian reservation, so Tribal records likely do not exist. Therefore, we interpret both of these data gaps to be insignificant.

5.0 Historical Research

A critical part of the ESA process is the consultation of historical sources to develop a history of the previous uses of the subject property and surrounding area. The purpose is to identify the likelihood of past uses causing recognized environmental conditions that could potentially impact the subject property. According to ASTM, the goal of historical research is to develop an assessment of chronological site and area land use from the first development. The historical information reviewed includes available sources that are reasonably ascertainable and relevant (as defined in ASTM E1527-05). Aerial photographs, USGS 7.5-minute topographic maps, local street directories, County records, Polk's directories, and historical atlases were reviewed for this project. Relevant historical findings are given below.

5.1 Aerial Photographs

Aerial photographs (aerials) were searched through a third-party firm, EDR. A copy of the EDR Aerial Photo Decade Package is attached in Appendix D. Aerials dated from 1975, 1981, 1991, 1992, 2005, 2006, 2009, and 2011 were reviewed.

The subject is present in all of the aerial photographs reviewed. The surrounding area appears to be vacant or perhaps residential in images dated 1992 and earlier. Images from 2005 to 2011 show what appears to be commercial development south and northwest of the subject. Additionally, commercial development east of Interstate 5 is observed to increase dramatically.

Although the aerial photographs do not specifically identify the presence of recognized environmental conditions, they do help establish the length of time the subject has been used as a truck stop.

5.2 USGS Topographic Maps

A topographic (topo) map search was completed through a third-party firm, EDR. A copy of the EDR Historical Topographic Map Report is attached in Appendix D. Coverage was available for years 1916, 1944, 1949, 1959, 1968, 1973, 1975, 1990, and 2011.

Topographic maps prior to 1973 show the subject to be vacant. Thus it appears the first of use of the subject occurred between 1968 and 1973. Additionally, the maps substantiate the find-

ings of our review of aerial photographs concerning the pattern of development of the surrounding area.

No specific historical recognized environmental conditions were revealed through the topographic map search.

5.3 Sanborn Fire Insurance Maps

A Sanborn map search was completed through a third-party firm, EDR. A copy of the EDR Sanborn Map Report is attached in Appendix D. Sanborn fire-insurance map coverage was not available for the subject and surrounding area.

5.4 City, County, and Suburban Directories

A directory search was completed through a third party, EDR. Their report, EDR City Directory Abstract, is attached in Appendix D. This source shows available directory coverage for the area surrounding the subject property. Pertinent results of the directory research are detailed below.

Directory listings were available for the years 1999, 2003, 2008 and 2013. The subject is listed as its current use which, based on the nature of truck-stop operations, suggests the presence of a recognized environmental condition.

5.5 Other Historical Sources

We reviewed Thurston County permit records available online for the subject. Several instances of violations were noted dealing with on-site septic system issues and food-handling issues associated with the restaurant along with compliance issues related to the on-site water system serving the subject. No specific historical recognized environmental conditions were revealed through the research of these other historical sources.

5.6 Summary of Historical Findings

The historical research indicates the subject property was first developed after 1968 into its current use. The surrounding area was largely undeveloped until 1992 and remains today as a low-density mixture of commercial and residential land uses.

Other than the use of the subject as a truck stop, no specific historical recognized environmental conditions were revealed through historical research.

5.7 Historical Data Failure Summary

Based on the information gathered for this study, the first use of the subject appears to be after 1968, and therefore, no historical data failure has occurred.

6.0 Client and Owner Provided Information and Interviews

6.1 Reason for Conducting the Phase I ESA

The Confederated Tribes of the Chehalis Reservation stated the purpose of this Phase I ESA is pre-acquisition due diligence.

6.2 Valuation Reduction for Environmental Issues

We have no information concerning whether the value of the subject property has been reduced for environmental reasons since we were not able to interview the owner and they did not return our questionnaire.

6.3 Interviews

Interviews, both actual and attempted, for this Phase I ESA were conducted by John F. Hildenbrand, a Robinson Noble environmental scientist.

6.3.1 Agencies

We conducted an interview with Michael Kunz, site manager with the Washington Department of Ecology (Ecology). Mr. Kunz provided background on the history of the contamination at the site, a description of the interim actions conducted by Ecology, and a synopsis of the current status of cleanup activities.

Mr. Kunz stated that the issues at the site came to light in the early 1980s when neighboring residences began complaining of gasoline odors in drinking water supplied by residential wells. Ecology conducted several investigations over the years, and in 1993, they installed an air-sparging vapor-extraction system as an interim remedial action. Mr. Kunz noted this was done in lieu of a final remedial option likely involving removal of the fueling systems and possibly adversely impacting the financial health of the owner of the property.

Mr. Kunz also stated that, although most of the wells have been abandoned at the site and that monitoring and remedial actions have essentially stopped, the site is not ready for no-further-action status. He notes there is likely remnant contamination that will require action prior to such a determination.

6.3.2 Owner/Site Manager

At the request of our client, we were not able to interview the owner. However, through our client, we submitted a detailed questionnaire to Kismet Ka Sitara LLC. The questionnaire includes questions concerning the subject property's current use and history; whether the person answering the questionnaire has any specialized knowledge or experience, or are aware of any "commonly known information," in connection with potential environmental conditions; whether they have any actual knowledge of environmental liens or activity use limitations (AULs) for the subject; whether the value of the property has been affected by environmental issues; and concerning the reason why the Phase I ESA is needed. As of the date of this report, we have not received the completed questionnaire. If it is received after publication, we will review it, and if needed, prepare an addendum letter updating the findings of this report as needed. The lack of owner interview is a data gap.

6.3.3 Previous Owners

Through our research on this project, we were able to identify at least one previous owner of the subject property. The most recent prior owner was Timothy J. Cosden. A telephone message left for Mr. Cosden on November 1 was not returned.

6.3.4 Others

No other interviews were conducted for this report.

6.4 Data Gaps

Our inability to interview the current owner and previous owners, plus the failure of the owner to return our questionnaire, represents data gaps. However, based on the volume of information reviewed for this study, as well as the concurrent subsurface investigation documented on Section 7.0 below, we opine that they are not significant.

7.0 Subsurface Investigation

In order to provide a baseline assessment of historical and new contamination, we completed a limited subsurface investigation of the subject. Field activities were completed November 7 and 8.

Our activities included collecting soil and groundwater samples at 18 on-site locations and one off-site location using direct-push drilling methods. The locations were selected to evaluate the current status of areas remediated, other areas assessed by previous investigations, and other areas that could be impacted from historical activities at the site but not previously investigated to our knowledge. Drilling services were provided by Holocene Drilling, Inc. Our field staff logged each boring and directed the collection of samples. During drilling and sampling, we conducted field screening using visual and olfactory cues and a hand-held photo ionization detector (PID) to detect potential organic vapors. Based on field screening, selected samples were submitted to an on-site mobile laboratory provided by Libby Environmental, Inc. (Libby). Libby is a Washington State accredited laboratory for the specific analysis performed for this project (Section 7.3). Each sample submitted to the laboratory was analyzed for gasoline-, diesel-, and oil-range petroleum hydrocarbons as well as gasoline-related volatile organic compounds.

7.1 Field Observations

During the field investigation, a total of 18 borings (designated B1 through B18) were installed at the site to evaluate subsurface conditions. One additional boring (B19) was installed on the adjacent property located northwest of the site across 93rd Avenue Southwest. All 19 of the borings were installed using direct-push drilling methods. The upper five feet of all the borings (except B17 and B18) were air-knifed with a Vactor truck to avoid damaging unidentified utilities and product lines associated with the fueling islands. The locations of the borings are shown on Figures 3, 4 and 5. B1 through B4 were installed in the area of the automobile fuel islands on the eastern portion of the site, B5 through B7 in the area of the USTs, and B8 through B16 in the area of, or north of, the commercial truck fuel islands on the western portion of the site. Borings B17 and B18 were installed on the southern portion of the site (up gradient of the fueling areas). B19 was installed north of the site across 93rd Avenue (down gradient of the fueling areas).

Each of the 19 borings was completed to a depth of 20 feet. Figures 6A through 6D present a log of the materials encountered in each boring. As shown, similar materials were penetrated by each boring and consisted of a layered sequence of silty sands with variable amounts of silt, sand, and occasional gravels. Minor wood debris encountered in the upper portion of B13 and B15 (at respective depths of three and eight feet) indicates the materials are either imported or reworked native material (fill). Similar material encountered in the upper portion of the other 16 on-site borings (minus the anthropogenic wood debris) suggests the upper two to eight feet of the site has likely been modified. The silts, sands, and occasional gravels encountered in the lower portion of each boring (including B19 off site to the north) appear to be native and are consistent with the Qvr described above in Section 3.2.2. Groundwater was encountered in each of the on-site borings at a depth of approximately 17 feet. Groundwater was encountered in B19 at a depth of 15 feet, but this is likely because the elevation of the area where the boring was placed is slightly lower than that of the subject.

Soil from each boring was field screened for signs of impact, as described above, using visual and olfactory cues and a hand-held PID. Each of the boring logs presented are annotated with significant field-screening observations. Representative soil samples from each boring were

submitted to the on-site mobile laboratory for analyses based primarily on field-screening results. In cases where field screening results did not indicate obvious signs of impact, soil samples nearest to the groundwater interface were generally selected for chemical analysis (petroleum generally tends to accumulate near the surface of the water table).

Occasionally, shallower samples (generally from the midpoint of the vadose zone) were submitted for analysis to try to generate representative analytical data. Groundwater samples were also collected from each boring via temporary PVC wells. Each temporary well was installed with five feet of screen placed between 15 and 20 feet so as to bracket the surface of the water table. Samples were collected using a peristaltic pump and low-sampling techniques. Each well was purged for 10 to 15 minutes prior to sampling to try to clear the water column and insure representative groundwater was being collected. A new PVC screen and riser and new pump tubing was used at each boring location.

The borings in the area of the automobile-fueling islands (B1 through B4), minor PID readings were observed in B1 and significant PID readings were observed in B4. A very strong petroleum odor was also noted throughout the entire depth of B4. As described below in Section 7.4, the field screening results for B1 and B4 corresponded with analytical detections of high levels of gasoline-range hydrocarbons in both the soil and/or groundwater samples collected from these two borings. A strong petroleum odor was also noted in the upper portion of B14 (located in the central area of the trucking fuel islands), but corresponding PID readings were not observed. This is often indicative of older (degraded) gasoline contamination. Analytical results described below in Section 7.4, did not indicate substantial levels of gasoline-range hydrocarbons in the soils from this boring but did show slightly elevated levels of benzene. The analytical results for the groundwater sample from B14, however, did show extremely high levels of gasoline and related volatile-organic compounds. Field screening did not indicate significant impact in any of the other borings.

7.2 Sample Submittal, Storage, and Handling

Samples were collected using methodologies appropriate for gasoline- and diesel-range petroleum hydrocarbons and volatile organic compounds using on-site mobile laboratories. Stainless-steel spoons were used to place soil into laboratory-supplied four-ounce glass jars, except for volatile organic samples, which were collected using EPA 5035 techniques. The properly labeled samples were submitted directly to the on-site mobile laboratory for analysis.

The chain-of-custody form (attached) displays the details of the on-site sample submittal to Libby. Each sample was tracked on the form with the details of the sample's identity, identity of handlers responsible for the samples, and analyses to be performed.

7.3 Sample Analysis

Analysis of samples was completed using NWTPH-GX, NWTPH-DX/DX Extended, and EPA 8260C by Libby Environmental, Inc.

7.4 Analytical Results

The complete laboratory report for the subsurface investigation is included as Appendix B. Table 1, below, presents the analytical results for gasoline-range hydrocarbons and volatile organics for the soil samples. Table 2, below, presents similar results for the groundwater samples. Bolded values in each of the tables identify sample results exceeding the Model Toxic Control Act (MTCA) Method A cleanup limits for soil (unrestricted land use) and groundwater,

respectively. For analytes that do not have an established Method A value, we used the most stringent Method B formula value.

We compared our results to unrestricted land-use cleanup levels based on the eventual need to place the property into trust status. This was done because the Bureau of Indian Affairs requires that land use be unrestricted prior to issuing environmental approval for fee-to-trust transfers.

Table 1: Analytical results for gasoline and volatile organic compounds in soil

| Sample no. | Depth (feet) | Gasoline (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl benzene (mg/kg) | Xylenes (mg/kg) | Napthalenes (mg/kg) | 1,3,5-trimethylbenzene |
|----------------------|--------------|------------------|-----------------|-----------------|-----------------------|-----------------|---------------------|------------------------|
| B1-7 | 7 | 29 | nd | nd | 0.068 | 0.52 | 0.053 | 0.25 |
| B1-16 | 16 | 135 | nd | nd | nd | 0.20 | 0.13 | 0.13 |
| B2-12 | 12 | nd | nd | nd | nd | nd | nd | nd |
| B3-16 | 16 | nd | nd | nd | nd | nd | nd | nd |
| B4-10 | 10 | 42,500 | 16.2 | 237 | 468 | 2,730 | 187 | 378 |
| B5-16 | 16 | nd | nd | nd | nd | nd | nd | nd |
| B6-16 | 16 | nd | nd | nd | nd | nd | 0.17 | nd |
| B7-16 | 16 | nd | nd | nd | nd | nd | nd | nd |
| B8-15 | 15 | nd | nd | nd | nd | nd | nd | nd |
| B9-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B10-16 | 16 | nd | nd | nd | nd | nd | nd | nd |
| B11-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B12-16 | 16 | nd | nd | nd | nd | nd | nd | nd |
| B13-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B14-8 | 8 | nd | 0.19 | 0.06 | nd | 0.14 | nd | nd |
| B15-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B16-7 | 7 | nd | nd | nd | nd | nd | 0.082 | nd |
| B17-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B18-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| B19-8 | 8 | nd | nd | nd | nd | nd | nd | nd |
| MTCA Method A | | 30 | 0.03 | 7.0 | 6.0 | 9.0 | 160 | NE |

Bolded values indicate the result exceeds the MTCA Method A cleanup level; "NE" denotes standard Method A or B cleanup level not established.

"nd" indicates the analyte was not detected above the applicable laboratory detection limit

Table 2: Analytical results for gasoline and volatile organic compounds in groundwater

| Sample no. | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Napthalenes µg/L | 1,3,5 Tri-methylbenzene (µg/L) |
|------------|-----------------|----------------|----------------|---------------------|----------------|------------------|--------------------------------|
| B1-W | 3,230 | 4.7 | 2.1 | 91 | 127 | 15 | 18 |
| B2-W | nd | nd | nd | nd | nd | nd | nd |
| B3-W | nd | nd | nd | nd | nd | nd | nd |
| B4-W | 538 | 18 | nd | 4.7 | 14 | 1.7 | 1.0 |
| B5-W | nd | nd | nd | nd | 3.3 | nd | nd |
| B6-W | 1,023 | 1.1 | nd | nd | nd | nd | nd |

| Sample no. | Gasoline (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | Napthalenes µg/L | 1,3,5 Trimethylbenzene (µg/L) |
|---------------|-----------------|----------------|----------------|---------------------|----------------|------------------|-------------------------------|
| B7-W | nd | nd | nd | nd | 0.15 | nd | nd |
| B8-W | 1,280 | nd | 1.4 | 12.6 | 3.1 | nd | 2.8 |
| B9-W | 358 | nd | 1.0 | 2.4 | 15.7 | 1.2 | 2.8 |
| B10-W | nd | nd | nd | nd | nd | nd | nd |
| B11-W | nd | nd | nd | nd | nd | nd | nd |
| B12-W | nd | nd | nd | nd | nd | nd | nd |
| B13-W | 1,350 | nd | nd | 8.8 | 42 | 2.7 | 20 |
| B14-W | 18,000 | 11 | 496 | 891 | 2,710 | 236 | 171 |
| B15-W | 105 | nd | nd | nd | nd | nd | nd |
| B16-W | 842 | 5.3 | 1.6 | 55 | 66 | 10 | nd |
| B17-W | nd | nd | nd | nd | nd | nd | nd |
| B18-W | nd | nd | nd | nd | nd | nd | nd |
| B19-W | nd | nd | nd | nd | nd | nd | nd |
| MTCA Method A | 800 | 5 | 1,000 | 700 | 1,000 | 160 | 80* |

Bolded values indicate the result exceeds the MTCA Method A or Method B cleanup level

* denotes MTCA Method B non-carcinogenic standard formula value

"nd" indicates the analyte was not detected above the applicable laboratory detection limit

7.5 Laboratory QA/QC

With the exception of matrix interferences caused by high analyte concentrations, the laboratory analyses were within the guidelines and control limits established by the laboratory and the analytical method. Therefore, the analyses were within acceptable QA/QC boundaries.

7.6 Data Reduction, Validation, and Reporting

7.6.1 Reduction

The raw data from the investigation are digitally stored on file. Reviews of the data show no inconsistencies or concerns.

7.6.2 Validation

Quality assurance and control results reported the laboratory confirmed the data is consistent and repeatable. The laboratory indicates that all samples analyzed and recorded fall within acceptable QA/QC limitations.

According to our review, quality control data for the chain-of-custody, sample holding times, laboratory blanks, blind field duplicates, laboratory surrogate recoveries, and field documentation are acceptable.

7.6.3 Reporting

The laboratory results (attached in Appendix B) include a cover letter report from Libby explaining the details regarding the analysis, the chain-of-custody forms, the sample summary results, and the summary of the laboratory QA/QC.

8.0 Findings, Conclusions, and Recommendations

8.1 Phase I Environmental Site Assessment

8.1.1 Phase I Findings

The subject site is comprised of one parcel identified by Thurston County records as parcel number 12721210200. The address assigned to the property is 2729 93rd Avenue Southwest, Olympia, Washington. This parcel is currently used primarily for commercial uses and is occupied by the Restover Truckstop, which is comprised of commercial vehicle fueling, retail gasoline sales, a convenience store, a restaurant, and a motel. The surrounding properties are a mixture of commercial, light industrial, residential, and vacant land.

The historical research indicates the subject property was first developed in 1969 as the current truck stop. The surrounding area was mostly undeveloped until after 1992, and it remains lightly developed today.

We reviewed standard environmental databases and found the subject property on the CSCSL, HSL, LUST, UST SPILLS, and EDR Historical Auto Station databases. These listings are related to the subject's use as a truck stop with associated fueling systems as well as the presence of unresolved contamination from site activities. The database search did indicate a number of nearby properties listed. However, none of these appear to be of concern.

We submitted a questionnaire to the subject property owner but it was not returned. We interviewed people knowledgeable about the property. This information provided evidence of recognized environmental conditions, which are included on the list below.

8.1.2 Data Gap Summary

Significant data gaps affect an environmental professional's ability to identify recognized environmental conditions. Our inability to review Tribal records and interview the current owner and previous owners represent data gaps. However, based on the volume of information reviewed for this study as well as the concurrent subsurface investigation documented on Section 7.0 below, we opine that they are not significant. We also identified a significant data gap with respect to the lack of our review of a title report. Given the discussions noted in Section 4.0, the unknown status of potential environmental liens should be considered a significant data gap.

8.1.3 Conclusions

We have performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E1527-05 of 2729 93rd Avenue Southwest, Olympia, Washington. Any exceptions to, or deletions from, this practice are described in Section 1.2 of this document. This assessment has not revealed evidence of recognized environmental conditions except for:

- The subject has documented soil and groundwater contamination as a result of releases from the fuel storage and dispensing systems. Although an interim remedial action was completed at the site and monitoring data showed a significant reduction in groundwater contamination, the site has not yet achieved no-further-action status.
- The presence of an environmental covenant containing activity and use limitations that must be complied with unless further assessment and cleanup is completed to the extent allowing their removal.

8.2 Phase II Conclusions

The data collected during the subsurface investigation portion of this project indicates that a significant area of groundwater beneath the site is impacted by gasoline-range petroleum hydrocarbons and related volatile-organic compounds. Figure 5 depicts the estimated extent of the groundwater plume based on the available data.

The current location of the contaminants is consistent with historical remedial investigation data that suggested a source area in the general vicinity of the contaminants. Further, while our data shows the interim remedial action appears to have substantially reduced the level of groundwater contaminants, it did not reduce levels to within the applicable cleanup standards.

Also, soils in the area of the retail fueling island and possibly under the store are also impacted by gasoline-related contamination. Figure 4 shows the estimated boundary of impacted soils.

The amount of remaining contamination suggests that substantial remedial action will be needed prior to the site being issued a no-further-action determination from the Washington Department of Ecology.

8.3 Recommendations

Considering the areal extent of soil and groundwater contamination at the site, additional investigation and remediation will be needed to achieve NFA status. Based on the currently available data, it is likely that final remediation efforts will involve excavation of impacted soils and treatment of impacted groundwater. Since it appears that the area of impacted soils extends below the convenience store and truck-fueling islands, the excavation will require demolition of these structures.

There are several available options for resolving groundwater impacts. These include additions of microbial degradation adjuvants (ORC), air sparging/vapor extraction, air stripping or multi-technology treatment (ART in-well). Selection of the most appropriate technology is likely to depend not only on cost but treatment time.

Assuming that the acquisition proceeds, we recommend that Chehalis Tribal Enterprises accomplish the following:

1. Submit the results of this study to the Department of Ecology with a request to determine the procedural process by which Ecology will ultimately issue a NFA determination.
2. Conduct consultations with BIA environmental staff to determine whether or not there is any mechanism by which a property can be put into trust with less than an unrestricted NFA.
3. Develop a final remedial investigation and remedial feasibility study (RI/FS) work plan for submittal to Ecology for their review and comment. Once Ecology is in concurrence with the proposed tasks, the investigation should be conducted. We recommend that part of this investigation include removal of current UST systems, structure demolition, and excavation of impacted soils. Additionally, this work will require the reimplementation of a groundwater monitoring network to allow for the design of an appropriate groundwater monitoring system.

4. Based on the results of the RI/FS, a cleanup action plan (CAP) should be prepared and submitted to Ecology for review and comment. Upon incorporation of Ecology's comments, the plan should be implemented.
5. Upon the completion of cleanup, final confirmational groundwater monitoring should be completed to the extent it is required by Ecology.

9.0 References

Federal, State, and Local Agency Records

Thurston County Assessor's Office

Thurston County Health Department

U.S. Geological Survey - 7.5 - Minute Series – Maytown quadrangle

U. S. Department of Agriculture - WebSoil Survey, Accessed 11/7/2013 Thurston County, Washington

Washington State Department of Ecology, Southwest Region

Library Research Tools

Metsker's Historical Atlas

Polk's City Directory

Sanborn Fire Insurance Maps

Other Sources

Environmental Data Resources Inc., 2013:

EDR Radius Map™ Report with GeoCheck®, November 4

EDR Historical Topographic Map Report, October 31

EDR Aerial Photo Decade Package, November 7

EDR City Directory Image Report, November 1

EDR Certified Sanborn® Map Report, October 31

Google Maps: <http://maps.google.com/>

Google Earth: <http://www.google.com/earth/>

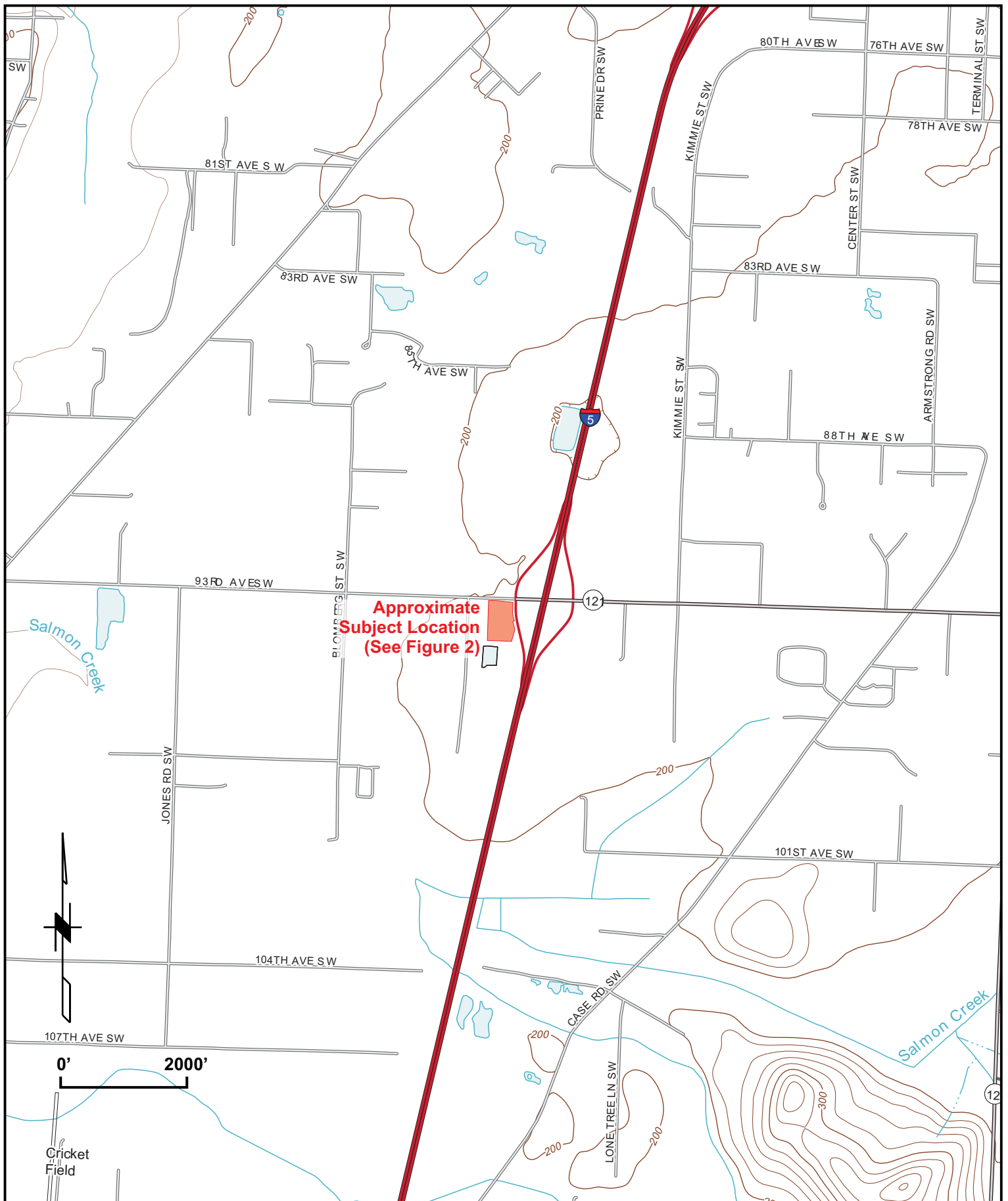
USGS, Drost, B.W, Ely, D.M, and Lum W.E, Conceptual model and numerical simulation of the ground-water-flow-system in the unconsolidated sediments of Thurston County, Washington, water-resources investigations report 99-4165, 254p.

10.0 Closing

Questions regarding the contents of this report should be addressed to the project manager. The professional qualifications of the preparers of the report are listed in Appendix E to this document. If you have questions regarding this report or require further discussion of any portion of this project, please contact Robinson Noble.

The statements, conclusions, and recommendations provided in this report are to be exclusively used within the context of this document. They are based upon generally accepted environmental and hydrogeologic practices and are the result of analysis by Robinson Noble, Inc. staff. This report, and any attachments to it, is for the exclusive use of Confederated Tribes of the Chehalis Reservation and the Bureau of Indian Affairs. Unless specifically stated in the document, no warranty, expressed or implied, is made.

APPENDIX A



Approximate
Subject Location
(See Figure 2)



0' 2000'



Note: Basemap taken from USGS Maytown Quadrangle

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2214-020A

Thurston County
T 17 N/R 02 W - 21
Scale 1" = 2000'

Figure 1
Vicinity Map



B19

93rd Avenue Southwest/State Route 121

**Approximate
Subject Property**

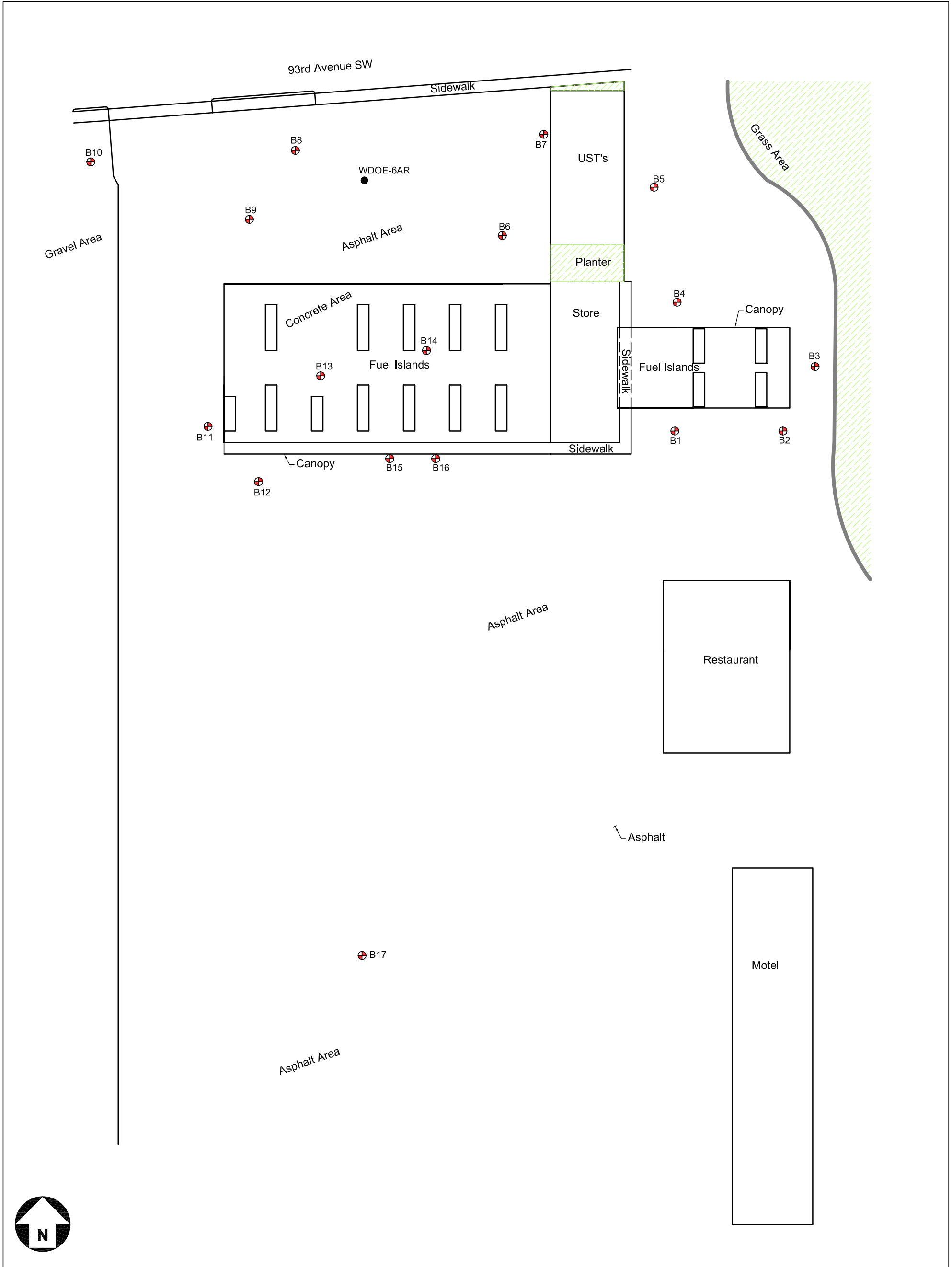


Note:
Image from
ESRI ArcGIS

PM: JFH
November 2013
2214-020A

Thurston County
T 17 N/R 02 W - 21
Scale 1" = 100'

Figure 2
Aerial Map of Site

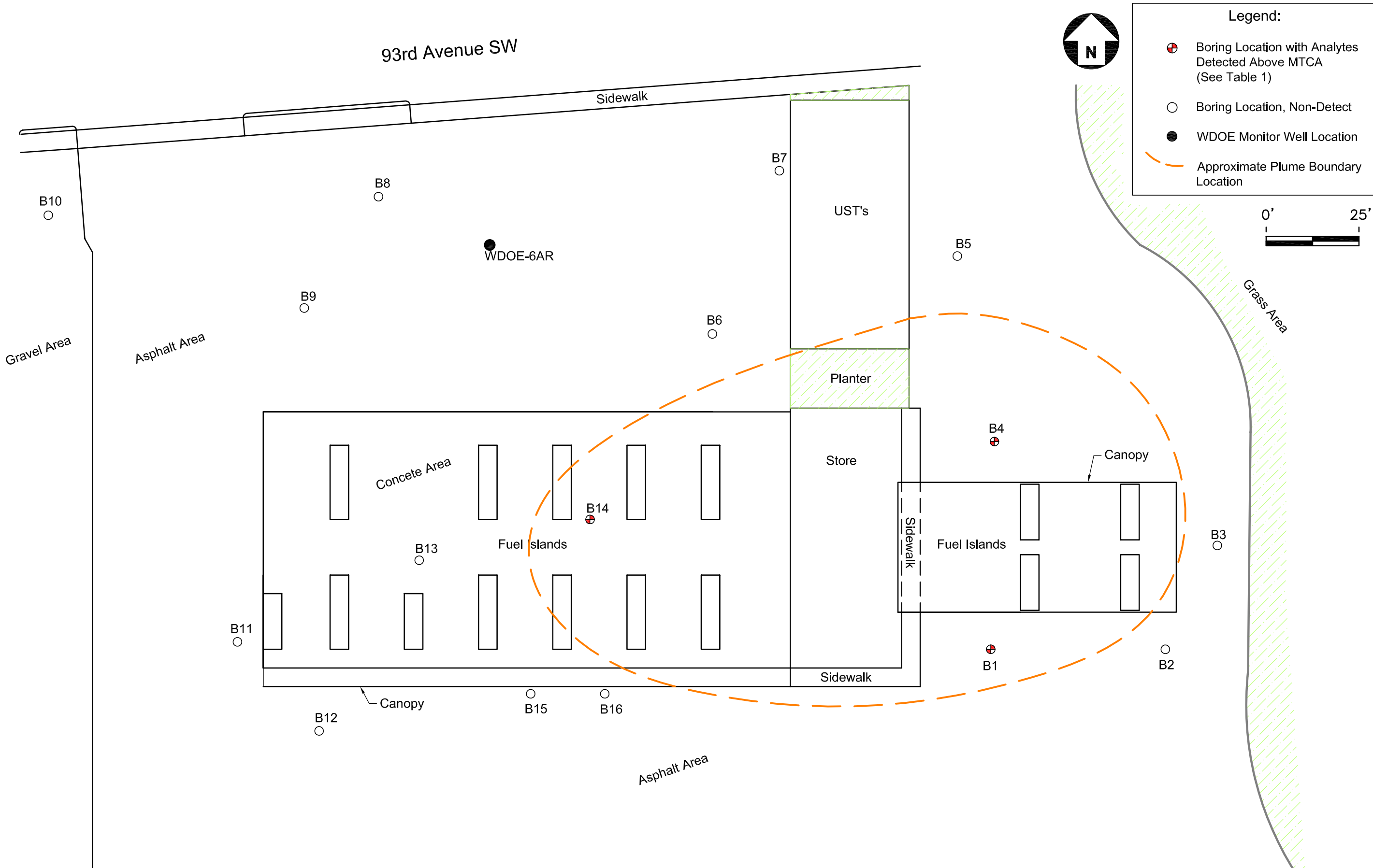


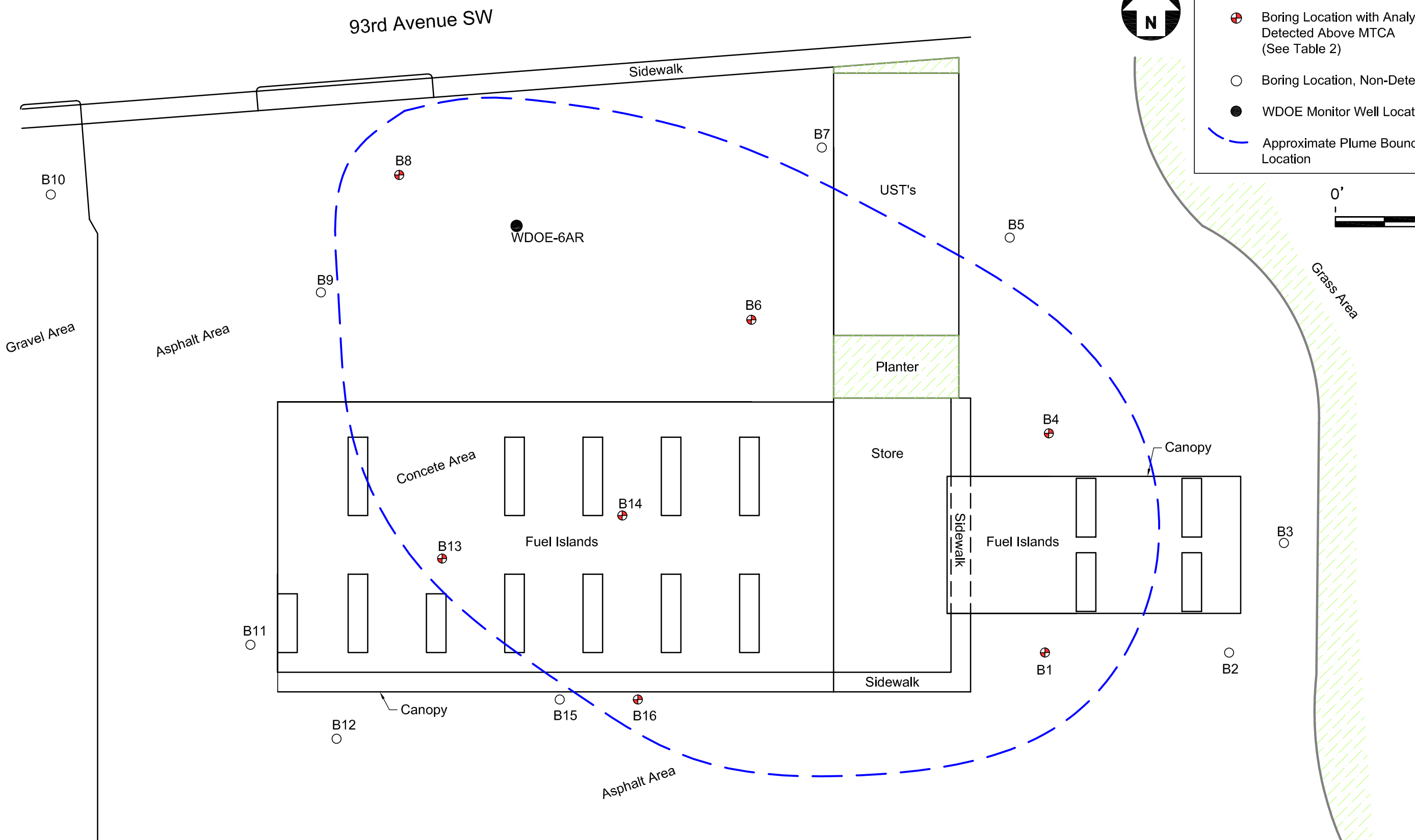
Legend:

- WDOE Monitor Well Location
- ⊕ Boring Location

Note: B19 is located on Figure 2.



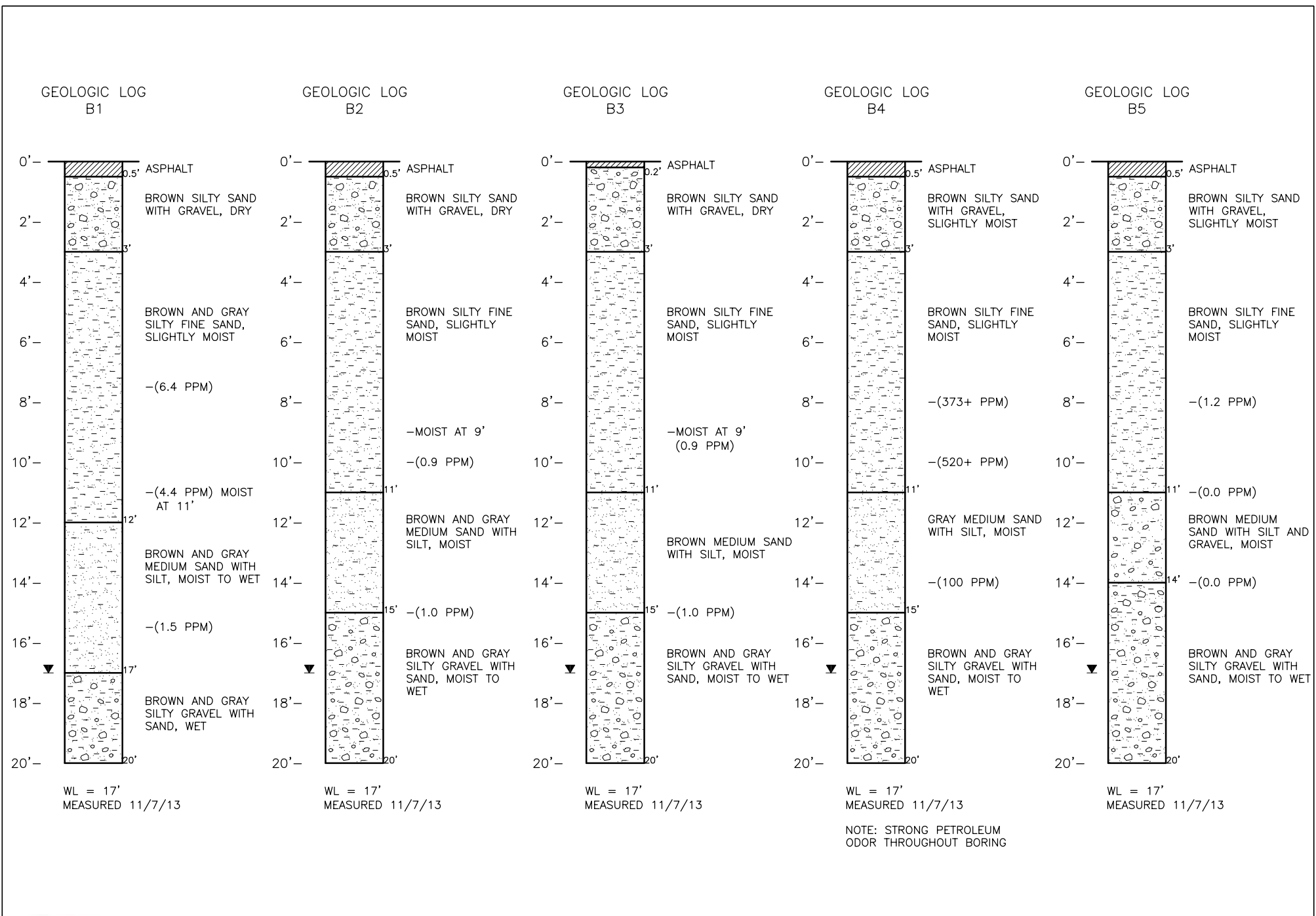




Legend:

- Boring Location with Analytes Detected Above MTCA (See Table 2)
- Boring Location, Non-Detect
- WDOE Monitor Well Location
- Approximate Plume Boundary Location

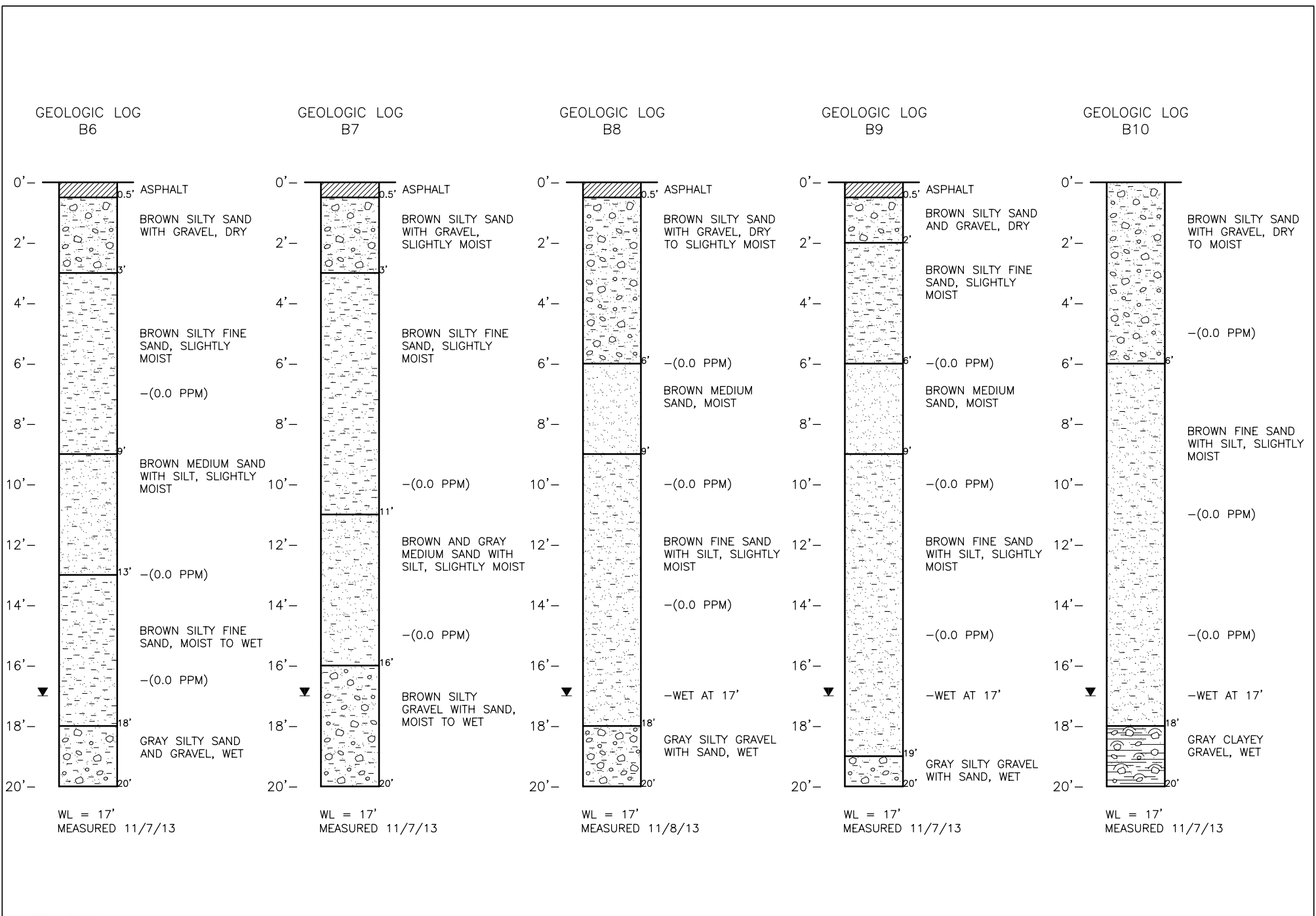




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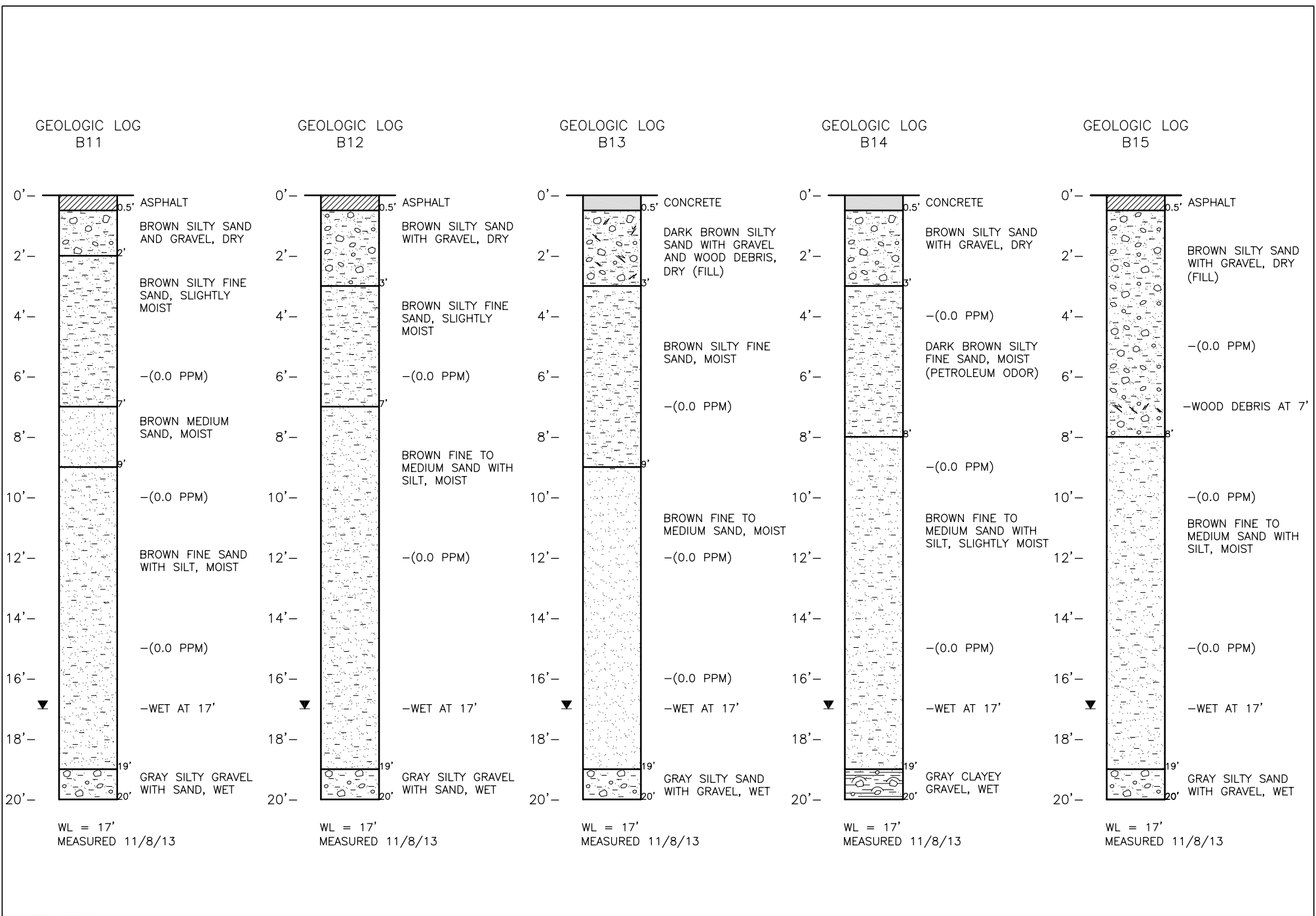
Figure 6A
Geologic Logs for Direct-Push Boreholes B1 through B5
Confederated Tribes of the Chehalis Reservation: RestoverTruck Stop/Phase I & II ESA



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Thurston County
T 17 N/R 02 W - 21

Figure 6B
Geologic Logs for Direct-Push Boreholes B6 through B10
Confederated Tribes of the Chehalis Reservation: Restover Truck Stop/Phase I & II ESA

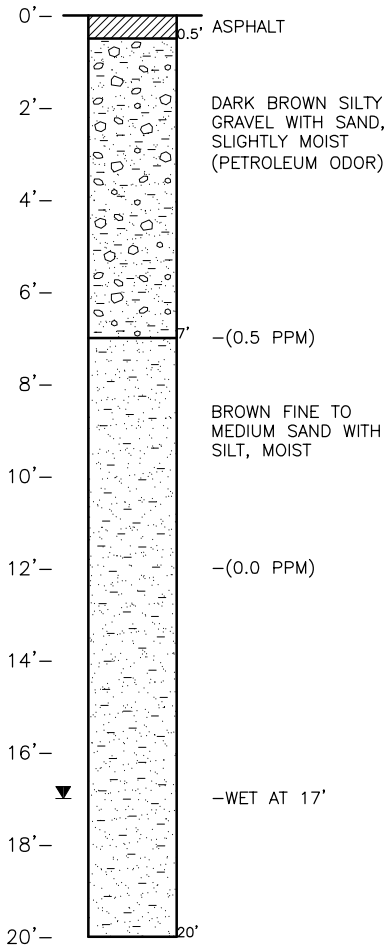


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Thurston County
T 17 N/R 02 W - 21

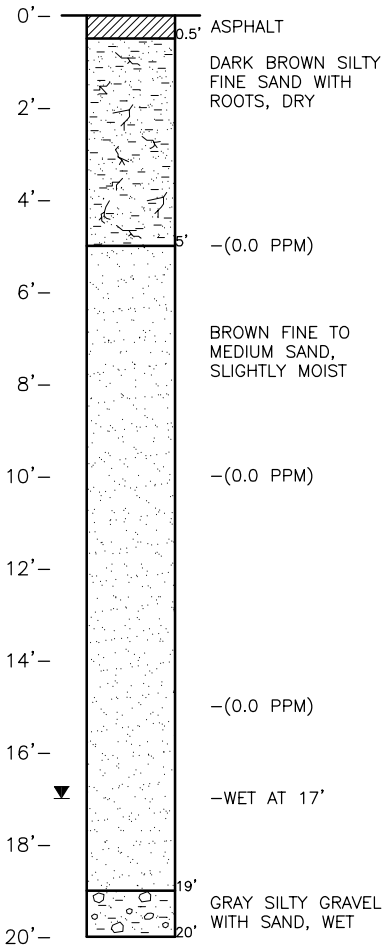
Figure 6C
Geologic Logs for Direct-Push Boreholes B11 through B15
Confederated Tribes of the Chehalis Reservation: Restover Truck Stop/Phase I & II ESA

GEOLOGIC LOG
B16



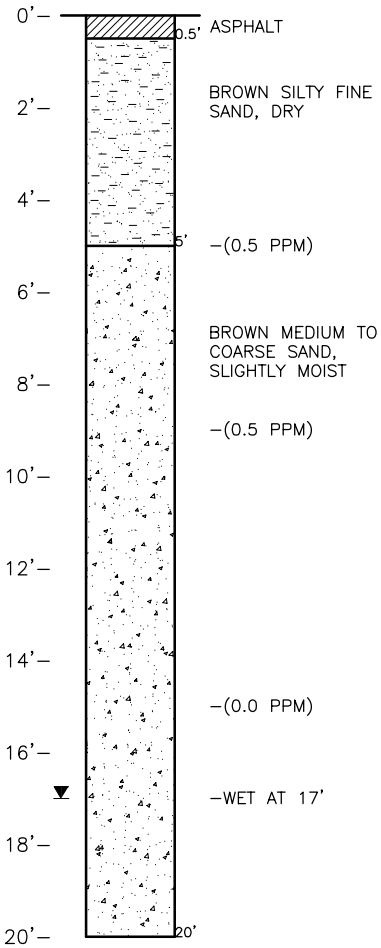
WL = 17'
MEASURED 11/8/13

GEOLOGIC LOG
B17



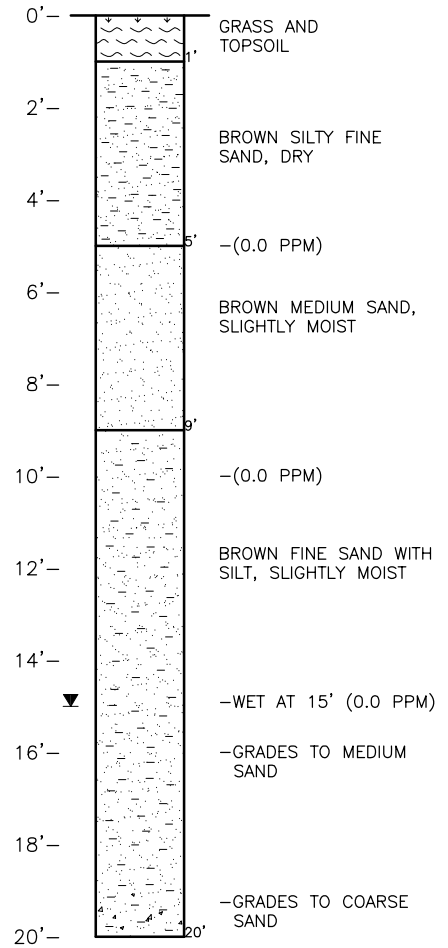
WL = 17'
MEASURED 11/8/13

GEOLOGIC LOG
B18



WL = 17'
MEASURED 11/8/13

GEOLOGIC LOG
B19



WL = 15'
MEASURED 11/8/13



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2214-020A

Thurston County
T 17 N/R 02 W - 21

Figure 6D
Geologic Logs for Direct-Push Boreholes B16 through B19
Confederated Tribes of the Chehalis Reservation: Restover Truck Stop/Phase I & II ESA

APPENDIX B



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 11, 2013

John Hildenbrand
Robinson Noble
3011 Huson Street South
Suite A
Tacoma, WA 98409

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Restover Project located in Olympia, Washington. Soil and water samples were analyzed for Volatile Organic Compounds by EPA Method 8260C, Gasoline by NWTPH-Gx, and Diesel & Oil by NWTPH-Dx/Dx Extended on November 7, 2013.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work is enclosed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B1-7 | B1-16 | B3-16 | B2-12 | B2-12 Dup |
|---|-----------|---------|---------|---------|---------|-----------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Chloromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Vinyl chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | 0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 |
| Chloroethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Benzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2-Dichloroethane (EDC) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Dibromomethane | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trans-1,3-Dichloropropene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chlorobenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Ethylbenzene | 0.03 | <0.03 | 0.068 | <0.03 | <0.03 | <0.03 |
| Total Xylenes | 0.03 | <0.03 | 0.52 | 0.20 | <0.03 | <0.03 |
| Styrene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B1-7 | B1-16 | B3-16 | B2-12 | B2-12 Dup |
|-----------------------------|-----------|---------|---------|---------|---------|-----------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Bromoform | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropylbenzene | 0.08 | <0.08 | <0.08 | 0.071 | <0.08 | <0.08 |
| 1,2,3-Trichloropropane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Bromobenzene | 0.03 | <0.03 | 0.063 | <0.03 | <0.03 | <0.03 |
| 1,1,2,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Propylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 2-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 4-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3,5-Trimethylbenzene | 0.02 | <0.02 | 0.25 | 0.13 | <0.02 | <0.02 |
| tert-Butylbenzene | 0.02 | <0.02 | 0.13 | <0.02 | <0.02 | <0.02 |
| 1,2,4-Trimethylbenzene | 0.02 | <0.02 | 0.93 | 0.48 | <0.02 | <0.02 |
| sec-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropyltoluene | 0.02 | <0.02 | 0.17 | 0.12 | <0.02 | <0.02 |
| 1,4-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,2,4-Trichlorobenzene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexachloro-1,3-butadiene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Naphthalenes | 0.05 | <0.05 | 0.053 | 0.13 | <0.05 | <0.05 |
| 1,2,3-Trichlorobenzene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Surrogate Recovery | | | | | | |
| Dibromofluoromethane | | 100 | 95 | 102 | 90 | 91 |
| 1,2-Dichloroethane-d4 | | 92 | 87 | 66 | 77 | 82 |
| Toluene-d8 | | 100 | 99 | 112 | 88 | 99 |
| 4-Bromofluorobenzene | | 102 | 100 | 85 | 101 | 90 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | | B4-10 | B5-16 | B6-16 | B7-16 | B9-8 |
|---|-----------|---------|---------|---------|---------|---------|
| Date Sampled | Reporting | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <6 | <0.06 | <0.06 | <0.06 | <0.06 |
| Chloromethane | 0.06 | <6 | <0.06 | <0.06 | <0.06 | <0.06 |
| Vinyl chloride | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | 0.09 | <9 | <0.09 | <0.09 | <0.09 | <0.09 |
| Chloroethane | 0.06 | <6 | <0.06 | <0.06 | <0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene chloride | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Benzene | 0.02 | 16.2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2-Dichloroethane (EDC) | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Dibromomethane | 0.04 | <4 | <0.04 | <0.04 | <0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | 0.03 | 237 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trans-1,3-Dichloropropene | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.5 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chlorobenzene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Ethylbenzene | 0.03 | 468 | <0.03 | <0.03 | <0.03 | <0.03 |
| Total Xylenes | 0.03 | 2730 | <0.03 | <0.03 | <0.03 | <0.03 |
| Styrene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | | B4-10 | B5-16 | B6-16 | B7-16 | B9-8 |
|-----------------------------|-----------|---------|---------|---------|---------|---------|
| Date Sampled | Reporting | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Bromoform | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropylbenzene | 0.08 | 33.9 | <0.08 | <0.08 | <0.08 | <0.08 |
| 1,2,3-Trichloropropane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Bromobenzene | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2,2-Tetrachloroethane | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Propylbenzene | 0.02 | 171 | <0.02 | <0.02 | <0.02 | <0.02 |
| 2-Chlorotoluene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 4-Chlorotoluene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3,5-Trimethylbenzene | 0.02 | 378 | <0.02 | <0.02 | <0.02 | <0.02 |
| tert-Butylbenzene | 0.02 | 178 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2,4-Trimethylbenzene | 0.02 | 1230 | <0.02 | <0.02 | <0.02 | <0.02 |
| sec-Butylbenzene | 0.02 | 15.8 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichlorobenzene | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropyltoluene | 0.02 | 12.7 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,4-Dichlorobenzene | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichlorobenzene | 0.03 | <3 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Butylbenzene | 0.02 | <2 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,2,4-Trichlorobenzene | 0.05 | <5 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexachloro-1,3-butadiene | 0.10 | <10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Naphthalenes | 0.05 | 187 | <0.05 | 0.17 | <0.05 | <0.05 |
| 1,2,3-Trichlorobenzene | 0.10 | <10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Surrogate Recovery | | | | | | |
| Dibromofluoromethane | | 103 | 91 | 91 | 89 | 92 |
| 1,2-Dichloroethane-d4 | | 87 | 86 | 87 | 81 | 82 |
| Toluene-d8 | | 103 | 99 | 98 | 86 | 97 |
| 4-Bromofluorobenzene | | 95 | 87 | 100 | 100 | 98 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

Sample B4-10 was diluted into calibration range which raises the reporting limits accordingly!

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B3-16 | | | | | | | |
|------------------------------|----------------------|------------------------|--------------------|------------------------|------------------------|--------------------|-----|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | |
| 1,1-Dichloroethene | 0.50 | 0.45 | 90 | 0.50 | 0.47 | 94 | 4.3 |
| Benzene | 0.50 | 0.63 | 126 | 0.50 | 0.63 | 126 | 0.3 |
| Toluene | 0.50 | 0.61 | 122 | 0.50 | 0.61 | 122 | 0.0 |
| Chlorobenzene | 0.50 | 0.64 | 128 | 0.50 | 0.64 | 128 | 0.0 |
| Trichloroethene (TCE) | 0.50 | 0.56 | 112 | 0.50 | 0.56 | 112 | 0.0 |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | | 98 | | | 113 | |
| 1,2-Dichloroethane-d4 | | | 87 | | | 106 | |
| Toluene-d8 | | | 98 | | | 120 | |
| 4-Bromofluorobenzene | | | 95 | | | 124 | |

| Laboratory Control Sample | | | |
|---------------------------|----------------------|------------------------|--------------------|
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) |
| 1,1-Dichloroethene | 0.50 | 0.47 | 94 |
| Benzene | 0.50 | 0.54 | 108 |
| Toluene | 0.50 | 0.53 | 106 |
| Chlorobenzene | 0.50 | 0.54 | 108 |
| Trichloroethene (TCE) | 0.50 | 0.50 | 100 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | | 100 |
| 1,2-Dichloroethane-d4 | | | 88 |
| Toluene-d8 | | | 99 |
| 4-Bromofluorobenzene | | | 91 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | Method | B1-W | B1-W Dup | B3-W | B2-W | B4-W | |
|---|-----------|---------|----------|---------|---------|---------|-------|
| | Blank | | | | | | |
| Date Sampled | Reporting | N/A | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| Dichlorodifluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Chloromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Vinyl chloride | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | |
| Bromomethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Chloroethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Trichlorofluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| 1,1-Dichloroethene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Methylene chloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 2,2-Dichloropropane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Chloroform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Carbon tetrachloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,1-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Benzene | 1.0 | <1.0 | 4.7 | 4.3 | <1.0 | <1.0 | 18 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Toluene | 1.0 | <1.0 | 2.1 | 1.9 | <1.0 | <1.0 | <1.0 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 | 91 | 86 | <1.0 | <1.0 | 4.7 |
| Total Xylenes | 2.0 | <2.0 | 127 | 118 | <2.0 | <2.0 | 14 |
| Styrene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | Method | B1-W | B1-W Dup | B3-W | B2-W | B4-W | |
|-----------------------------|-----------|---------|----------|---------|---------|---------|----|
| | Blank | | | | | | |
| Date Sampled | Reporting | N/A | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 | |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| Bromoform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Isopropylbenzene | 4.0 | <4.0 | 9.7 | <4.0 | <4.0 | 1.3 | |
| 1,2,3-Trichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Bromobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| n-Propylbenzene | 1.0 | <1.0 | 25 | 23 | <1.0 | 1.0 | |
| 2-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 4-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 | 18 | 17 | <1.0 | 1.0 | |
| tert-Butylbenzene | 1.0 | <1.0 | 20 | 18 | <1.0 | 1.1 | |
| 1,2,4-Trimethylbenzene | 1.0 | <1.0 | 135 | 127 | <1.0 | 7.2 | |
| sec-Butylbenzene | 1.0 | <1.0 | 2.7 | 2.4 | <1.0 | <1.0 | |
| 1,3-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Isopropyltoluene | 1.0 | <1.0 | 2.9 | 2.6 | <1.0 | <1.0 | |
| 1,4-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,2-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| n-Butylbenzene | 1.0 | <1.0 | 6.4 | <1.0 | <1.0 | <1.0 | |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Naphthalenes | 5.0 | <5.0 | 15 | 13 | <5.0 | 1.7 | |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | 100 | 99 | 100 | 95 | 96 | 97 |
| 1,2-Dichloroethane-d4 | | 92 | 88 | 85 | 84 | 85 | 80 |
| Toluene-d8 | | 100 | 98 | 99 | 96 | 99 | 99 |
| 4-Bromofluorobenzene | | 102 | 96 | 103 | 101 | 94 | 95 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | | B5-W | B6-W | B7-W | B9-W |
|---|-----------|---------|---------|---------|---------|
| Date Sampled | Reporting | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| Dichlorodifluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Chloromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Vinyl chloride | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Bromomethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Chloroethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Trichlorofluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Methylene chloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2,2-Dichloropropane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | 1.0 | <1.0 | 5.9 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Carbon tetrachloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Benzene | 1.0 | <1.0 | 1.1 | <1.0 | <1.0 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Toluene | 1.0 | <1.0 | <1.0 | <1.0 | 1.0 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | 2.4 |
| Total Xylenes | 2.0 | 3.3 | <2.0 | 0.15 | 15.7 |
| Styrene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | | B5-W | B6-W | B7-W | B9-W |
|-----------------------------|-----------|---------|---------|---------|---------|
| Date Sampled | Reporting | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| Date Analyzed | Limits | 11/7/13 | 11/7/13 | 11/7/13 | 11/7/13 |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| Bromoform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Isopropylbenzene | 4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| 1,2,3-Trichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| n-Propylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | 1.3 |
| 2-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | 2.8 |
| tert-Butylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | 1.3 | 1.0 | <1.0 | 8.5 |
| sec-Butylbenzene | 1.0 | <1.0 | 3.6 | <1.0 | 1.6 |
| 1,3-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Isopropyltoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,4-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| n-Butylbenzene | 1.0 | <1.0 | 3.5 | <1.0 | <1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalenes | 5.0 | <5.0 | <5.0 | <5.0 | 1.2 |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Surrogate Recovery | | | | | |
| Dibromofluoromethane | | 95 | 91 | 96 | 95 |
| 1,2-Dichloroethane-d4 | | 83 | 67 | 81 | 72 |
| Toluene-d8 | | 98 | 103 | 90 | 95 |
| 4-Bromofluorobenzene | | 96 | 90 | 98 | 103 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131107-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B3-W | | | | | | | |
|-----------------------------|---------------------|-----------------------|--------------------|------------------------|-----------------------|--------------------|-----|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | (%) |
| 1,1-Dichloroethene | 10 | 7.2 | 72 | 10 | 7.8 | 78 | 8.0 |
| Benzene | 10 | 10.0 | 100 | 10 | 10.3 | 103 | 3.0 |
| Toluene | 10 | 9.6 | 96 | 10 | 10.0 | 100 | 4.1 |
| Chlorobenzene | 10 | 10.0 | 100 | 10 | 10.8 | 108 | 7.7 |
| Trichloroethene (TCE) | 10 | 9.1 | 91 | 10 | 9.4 | 94 | 3.2 |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | | 96 | | | 96 | |
| 1,2-Dichloroethane-d4 | | | 84 | | | 85 | |
| Toluene-d8 | | | 99 | | | 99 | |
| 4-Bromofluorobenzene | | | 93 | | | 97 | |

| Laboratory Control Sample | | | |
|---------------------------|---------------------|-----------------------|--------------------|
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) |
| 1,1-Dichloroethene | 10 | 9.5 | 95 |
| Benzene | 10 | 10.9 | 109 |
| Toluene | 10 | 10.6 | 106 |
| Chlorobenzene | 10 | 10.7 | 107 |
| Trichloroethene (TCE) | 10 | 9.9 | 99 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | | 100 |
| 1,2-Dichloroethane-d4 | | | 88 |
| Toluene-d8 | | | 99 |
| 4-Bromofluorobenzene | | | 91 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131107-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (mg/kg) |
|------------------------------|---------------|------------------------|------------------|
| Method Blank | 11/7/13 | 100 | <10 |
| B1-7 | 11/7/13 | 99 | 29 |
| B1-16 | 11/7/13 | 112 | 135 |
| B3-16 | 11/7/13 | 88 | <10 |
| B2-12 | 11/7/13 | 99 | <10 |
| B2-12 Dup | 11/7/13 | 97 | <10 |
| B4-10 | 11/7/13 | 103 | 42500 E |
| B5-16 | 11/7/13 | 99 | <10 |
| B6-16 | 11/7/13 | 98 | <10 |
| B7-16 | 11/7/13 | 86 | <10 |
| B9-8 | 11/7/13 | 97 | <10 |
| Practical Quantitation Limit | | | 10 |

"nd" Indicates not detected at the listed detection limits.

"E" Indicates that the reported result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131107-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline ($\mu\text{g/l}$) |
|------------------------------|---------------|------------------------|------------------------------|
| Method Blank | 11/7/13 | 100 | <100 |
| B1-W | 11/7/13 | 98 | 3230 |
| B1-W Dup | 11/7/13 | 99 | 3080 |
| B3-W | 11/7/13 | 96 | <100 |
| B2-W | 11/7/13 | 99 | <100 |
| B4-W | 11/7/13 | 99 | 538 |
| B5-W | 11/7/13 | 98 | <100 |
| B6-W | 11/7/13 | 103 | 1023 |
| B7-W | 11/7/13 | 90 | <100 |
| B9-W | 11/7/13 | 95 | 358 |
| Practical Quantitation Limit | | | 100 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

RESTOVER PROJECT
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Libby Project # L131107-10
Client Project # 2214-020A

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel (mg/kg) | Oil (mg/kg) |
|------------------------------|---------------|------------------------|----------------|-------------|
| Method Blank | 11/7/13 | 97 | <25 | <40 |
| B1-7 | 11/7/13 | 93 | <25 | <40 |
| B1-7 Dup | 11/7/13 | 90 | <25 | <40 |
| B1-16 | 11/7/13 | 92 | <25 | <40 |
| B3-16 | 11/7/13 | 97 | <25 | <40 |
| B2-12 | 11/7/13 | 84 | <25 | <40 |
| B4-10 | 11/7/13 | 114 | <25 | <40 |
| B5-16 | 11/7/13 | 82 | <25 | <40 |
| B6-16 | 11/7/13 | 87 | <25 | <40 |
| B7-16 | 11/7/13 | 83 | <25 | <40 |
| B9-8 | 11/7/13 | 80 | <25 | <40 |
| B9-8 Dup | 11/7/13 | 83 | <25 | <40 |
| Practical Quantitation Limit | | | 25 | 40 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131107-10
Client Project # 2214-020A

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel ($\mu\text{g/l}$) | Oil ($\mu\text{g/l}$) |
|------------------------------|---------------|------------------------|----------------------------|-------------------------|
| Method Blank | 11/7/13 | 97 | <200 | <400 |
| B1-W | 11/7/13 | 90 | <200 | <400 |
| B1-W Dup | 11/7/13 | 90 | <200 | <400 |
| B3-W | 11/7/13 | 98 | <200 | <400 |
| B2-W | 11/7/13 | 80 | <200 | <400 |
| B4-W | 11/7/13 | 80 | <200 | <400 |
| B5-W | 11/7/13 | 85 | <200 | <400 |
| B6-W | 11/7/13 | 89 | <200 | <400 |
| B7-W | 11/7/13 | 83 | <200 | <400 |
| B9-W | 11/7/13 | 89 | <200 | <400 |
| Practical Quantitation Limit | | | 200 | 400 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

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Date: 11-7-13 Page: 1 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address:

Project Name: RESTOVER

City: State: Zip:

Location: City, State: Olympia, WA

Phone: Fax:

Collector: KARI THOMAS Date of Collection: 11-7-13

Client Project # 2214-020A

Email:

| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | Field Notes | | |
|---------------------------|------------|-------------|--------------|-------------------|------------|----------------------|----------|---------------|------------|----------|----------|----------|------------|---------------|-------------|--|-----------------|
| | | | | | VOA 802-1B | VOA 802-1B BTEX Only | VOA 8260 | SEMI VOL 8270 | NWTPH-HCID | NWTPH-Gx | NWTPH-Dx | PAH 8270 | PCB's 8082 | MTCA 5 Metals | | | |
| 1 <u>B1-7</u> | <u>7.5</u> | <u>955</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | X | | | X | X | | | | | | | |
| 2 <u>B1-7W</u> | <u>19</u> | <u>1015</u> | <u>H2O</u> | <u>Amber</u> | | | | | | | | | | | | | |
| 3 <u>B1-16'</u> | <u>16</u> | <u>1010</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD RUN</u> |
| 4 <u>B3-16</u> | <u>16</u> | <u>1115</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |
| 5 <u>B3-8'</u> | <u>8</u> | <u>1120</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |
| 6 <u>B3-W</u> | | <u>1125</u> | <u>water</u> | <u>2Amber</u> | | | | | | | | | | | | | |
| 7 <u>B2-W</u> | | <u>1205</u> | <u>water</u> | <u>2VOA/Amber</u> | | | | | | | | | | | | | |
| 8 <u>B2-16</u> | <u>16</u> | <u>1154</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |
| 9 <u>B2-12</u> | <u>12</u> | <u>1200</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | |
| 10 <u>B4-10</u> | <u>10</u> | | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | |
| 11 <u>B4-16</u> | <u>16</u> | | <u>water</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |
| 12 <u>B4-W</u> | | | <u>water</u> | <u>2VOA/Amber</u> | | | | | | | | | | | | | |
| 13 <u>B5-16</u> | <u>16</u> | <u>1410</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | |
| 14 <u>B5-6</u> | <u>6</u> | <u>1415</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |
| 15 <u>B5-W</u> | | <u>1418</u> | <u>water</u> | <u>2VOA/Amber</u> | | | | | | | | | | | | | |
| 16 <u>B6-W</u> | | <u>1450</u> | <u>water</u> | <u>2VOA/Amber</u> | | | | | | | | | | | | | |
| 17 <u>B6-5</u> | <u>5</u> | <u>1455</u> | <u>Soil</u> | <u>2VOA/Jar</u> | | | | | | | | | | | | | <u>HOLD</u> |

| | | | | | |
|-------------------------------|----------------------------------|-------------------------------|----------------------------------|----------------------------|----------|
| Relinquished by: <u>Mar 7</u> | Date / Time: <u>11/7/13 6:30</u> | Received by: <u>Paul Burk</u> | Date / Time: <u>11/7/13 6:30</u> | Sample Receipt: | Remarks: |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Good Condition? | |
| | | | | Cold? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Seals Intact? | |
| | | | | Total Number of Containers | |

Libby Environmental, Inc.

Chain of Custody Record

4139 Libby Road NE
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Ph: 360-352-2110
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Date: 11-7-13 Page: 2 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address:

Project Name: Restorer

City: State: Zip:

Location: City, State: Olympia, WA

Phone: Fax:

Collector: KARL Thomas Date of Collection: 11-7-13

Client Project #

Email:



| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | | Field Notes | | |
|---------------|-------|------|-------------|----------------|-----------|---------------------|----------|---------------|------------|----------|----------|----------|------------|---------------|--|-------------|--|------|
| | | | | | VOA 8021B | VOA 8021B BTEX Only | VOA 8280 | SEMI VOL 8270 | NWTPH-HCID | NWTPH-GX | NWTPH-DX | PAH 8270 | PCB's 8082 | MTCA 5 Metals | | | | |
| 1 B6-16 | 16 | 1445 | Soil | 2VOA/Jar | | X | | | | X | X | | | | | | | |
| 2 B7-16 | 16 | 1535 | soil | 2VOA/Jar | | ↓ | | | | ↓ | ↓ | | | | | | | |
| 3 B7-8 | 8 | 1520 | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 4 B7-W | | 1530 | water | 2VOA/Amber | | ↓ | | | | ↓ | ↓ | | | | | | | |
| 5 B9-W | | 1620 | water | 2VOA/Amber | | | | | | | | | | | | | | |
| 6 B9-8 | 8 | 1610 | Soil | 2VOA/Jar | | ↓ | | | | ↓ | ↓ | | | | | | | |
| 7 B9-16 | 16 | 1615 | Soil | 2VOA/Jar | | ↓ | | | | ↓ | ↓ | | | | | | | HOLD |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | |

| | | | | | |
|------------------------------|----------------------------------|-------------------------------|----------------------------------|----------------------------|----------------------|
| Relinquished by: <u>Matt</u> | Date / Time: <u>11/7/13 6:30</u> | Received by: <u>Paul Burt</u> | Date / Time: <u>11/7/13 1630</u> | Sample Receipt: | Remarks: |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Good Condition? | |
| | | | | Cold? | |
| | | | | Seals Intact? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Total Number of Containers | TAT: 24HR 48HR 5-DAY |



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 11, 2013

John Hildenbrand
Robinson Noble
3011 Huson Street South
Suite A
Tacoma, WA 98409

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Restover Project located in Olympia, Washington. Soil and water samples were analyzed for Volatile Organic Compounds by EPA Method 8260C, Gasoline by NWTPH-Gx, and Diesel & Oil by NWTPH-Dx/Dx Extended on November 8, 2013.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work is enclosed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

www.LibbyEnvironmental.com

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B8-15 | B8-15 Dup | B11-8 | B19-8 | B13-8 |
|---|-----------|---------|-----------|---------|---------|---------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Chloromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Vinyl chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | 0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 |
| Chloroethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Benzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2-Dichloroethane (EDC) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Dibromomethane | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trans-1,3-Dichloropropene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chlorobenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Ethylbenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Total Xylenes | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Styrene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |

Libby Environmental, Inc.

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B8-15 | B8-15 Dup | B11-8 | B19-8 | B13-8 | |
|-----------------------------|-----------|---------|-----------|---------|---------|---------|-----|
| | Blank | | | | | | |
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | |
| Date Analyzed | Limits | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| Bromoform | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| Isopropylbenzene | 0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 | |
| 1,2,3-Trichloropropane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| Bromobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| 1,1,2,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| n-Propylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 2-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 4-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 1,3,5-Trimethylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| tert-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 1,2,4-Trimethylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| sec-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 1,3-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| Isopropyltoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 1,4-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| 1,2-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | |
| n-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| 1,2,4-Trichlorobenzene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| Hexachloro-1,3-butadiene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | |
| Naphthalenes | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| 1,2,3-Trichlorobenzene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | 98 | 89 | 101 | 92 | 92 | 89 |
| 1,2-Dichloroethane-d4 | | 90 | 76 | 67 | 86 | 84 | 81 |
| Toluene-d8 | | 100 | 97 | 121 | 98 | 98 | 85 |
| 4-Bromofluorobenzene | | 87 | 100 | 89 | 101 | 101 | 101 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | B12-16 | |
|---|-----------|---------|
| Date Sampled | Reporting | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 |
| | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <0.06 |
| Chloromethane | 0.06 | <0.06 |
| Vinyl chloride | 0.02 | <0.02 |
| Bromomethane | 0.09 | <0.09 |
| Chloroethane | 0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <0.05 |
| Methylene chloride | 0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <0.02 |
| Chloroform | 0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <0.02 |
| Benzene | 0.02 | <0.02 |
| 1,2-Dichloroethane (EDC) | 0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <0.02 |
| Dibromomethane | 0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <0.02 |
| Toluene | 0.03 | <0.03 |
| Trans-1,3-Dichloropropene | 0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.005 |
| Chlorobenzene | 0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <0.03 |
| Ethylbenzene | 0.03 | <0.03 |
| Total Xylenes | 0.03 | <0.03 |
| Styrene | 0.02 | <0.02 |

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | B12-16 | |
|-----------------------------|-----------|---------|
| Date Sampled | Reporting | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 |
| | (mg/kg) | (mg/kg) |
| Bromoform | 0.03 | <0.03 |
| Isopropylbenzene | 0.08 | <0.08 |
| 1,2,3-Trichloropropane | 0.03 | <0.03 |
| Bromobenzene | 0.03 | <0.03 |
| 1,1,2,2-Tetrachloroethane | 0.03 | <0.03 |
| n-Propylbenzene | 0.02 | <0.02 |
| 2-Chlorotoluene | 0.02 | <0.02 |
| 4-Chlorotoluene | 0.02 | <0.02 |
| 1,3,5-Trimethylbenzene | 0.02 | <0.02 |
| tert-Butylbenzene | 0.02 | <0.02 |
| 1,2,4-Trimethylbenzene | 0.02 | <0.02 |
| sec-Butylbenzene | 0.02 | <0.02 |
| 1,3-Dichlorobenzene | 0.03 | <0.03 |
| Isopropyltoluene | 0.02 | <0.02 |
| 1,4-Dichlorobenzene | 0.03 | <0.03 |
| 1,2-Dichlorobenzene | 0.03 | <0.03 |
| n-Butylbenzene | 0.02 | <0.02 |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <0.05 |
| 1,2,4-Trichlorobenzene | 0.05 | <0.05 |
| Hexachloro-1,3-butadiene | 0.10 | <0.10 |
| Naphthalenes | 0.05 | <0.05 |
| 1,2,3-Trichlorobenzene | 0.10 | <0.10 |
| Surrogate Recovery | | |
| Dibromofluoromethane | 93 | |
| 1,2-Dichloroethane-d4 | 87 | |
| Toluene-d8 | 100 | |
| 4-Bromofluorobenzene | 102 | |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B12-16 | | | | | | | |
|-------------------------------|----------------------|------------------------|--------------------|------------------------|------------------------|--------------------|-----|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | |
| 1,1-Dichloroethene | 0.50 | 0.37 | 74 | 0.50 | 0.37 | 74 | 0.0 |
| Benzene | 0.50 | 0.52 | 104 | 0.50 | 0.55 | 110 | 5.6 |
| Toluene | 0.50 | 0.50 | 100 | 0.50 | 0.50 | 100 | 0.0 |
| Chlorobenzene | 0.50 | 0.53 | 106 | 0.50 | 0.55 | 110 | 3.7 |
| Trichloroethene (TCE) | 0.50 | 0.46 | 92 | 0.50 | 0.49 | 98 | 6.3 |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | | 91 | | | 85 | |
| 1,2-Dichloroethane-d4 | | | 85 | | | 66 | |
| Toluene-d8 | | | 98 | | | 96 | |
| 4-Bromofluorobenzene | | | 98 | | | 86 | |

| Laboratory Control Sample | | | |
|---------------------------|----------------------|------------------------|--------------------|
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) |
| 1,1-Dichloroethene | 0.50 | 0.39 | 78 |
| Benzene | 0.50 | 0.47 | 94 |
| Toluene | 0.50 | 0.48 | 96 |
| Chlorobenzene | 0.50 | 0.48 | 96 |
| Trichloroethene (TCE) | 0.50 | 0.43 | 86 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | | 98 |
| 1,2-Dichloroethane-d4 | | | 84 |
| Toluene-d8 | | | 99 |
| 4-Bromofluorobenzene | | | 86 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | Method | B8-W | B8-W Dup | B11-W | B19-W | B13-W |
|---|-----------|---------|----------|---------|---------|---------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| Dichlorodifluoromethane | 2.0 | <2 | <2 | <2 | <2 | <2 |
| Chloromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Vinyl chloride | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Bromomethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Chloroethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Trichlorofluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Methylene chloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2,2-Dichloropropane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Carbon tetrachloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Benzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Toluene | 1.0 | <1.0 | 1.4 | 1.6 | <1.0 | <1.0 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 | 12.6 | 13.9 | <1.0 | 8.8 |
| Total Xylenes | 2.0 | <2.0 | 3.1 | 3.2 | <2.0 | 42 |
| Styrene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Libby Environmental, Inc.

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | Method | B8-W | B8-W Dup | B11-W | B19-W | B13-W | |
|-----------------------------|-----------|---------|----------|---------|---------|---------|-----|
| | Blank | | | | | | |
| Date Sampled | Reporting | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | |
| Date Analyzed | Limits | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | |
| Bromoform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Isopropylbenzene | 4.0 | <4.0 | 1.6 | 1.9 | <4.0 | 2.3 | |
| 1,2,3-Trichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Bromobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| n-Propylbenzene | 1.0 | <1.0 | 4.7 | 5.2 | <1.0 | 3.8 | |
| 2-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 4-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 | 2.8 | 2.9 | <1.0 | 20 | |
| tert-Butylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 8.6 | |
| 1,2,4-Trimethylbenzene | 1.0 | <1.0 | 1.5 | 1.6 | <1.0 | 60.0 | |
| sec-Butylbenzene | 1.0 | <1.0 | 1.8 | 2.0 | <1.0 | 1.2 | |
| 1,3-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Isopropyltoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,4-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,2-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| n-Butylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Naphthalenes | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.7 | |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | 98 | 94 | 95 | 92 | 96 | 97 |
| 1,2-Dichloroethane-d4 | | 90 | 79 | 79 | 77 | 70 | 79 |
| Toluene-d8 | | 100 | 97 | 100 | 98 | 106 | 102 |
| 4-Bromofluorobenzene | | 87 | 103 | 103 | 86 | 87 | 103 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | B12-W | |
|---|-----------|---------|
| Date Sampled | Reporting | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 |
| | (µg/l) | (µg/l) |
| Dichlorodifluoromethane | 2.0 | <2 |
| Chloromethane | 2.0 | <2.0 |
| Vinyl chloride | 0.2 | <0.2 |
| Bromomethane | 2.0 | <2.0 |
| Chloroethane | 2.0 | <2.0 |
| Trichlorofluoromethane | 2.0 | <2.0 |
| 1,1-Dichloroethene | 2.0 | <2.0 |
| Methylene chloride | 1.0 | <1.0 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 |
| 1,1-Dichloroethane | 1.0 | <1.0 |
| 2,2-Dichloropropane | 2.0 | <2.0 |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 |
| Chloroform | 1.0 | <1.0 |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 |
| Carbon tetrachloride | 1.0 | <1.0 |
| 1,1-Dichloropropene | 1.0 | <1.0 |
| Benzene | 1.0 | <1.0 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 |
| Toluene | 1.0 | <1.0 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 |
| Total Xylenes | 2.0 | <2.0 |
| Styrene | 1.0 | <1.0 |

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | B12-W | |
|-----------------------------|-----------|---------|
| Date Sampled | Reporting | 11/8/13 |
| Date Analyzed | Limits | 11/8/13 |
| | (µg/l) | (µg/l) |
| Bromoform | 1.0 | <1.0 |
| Isopropylbenzene | 4.0 | <4.0 |
| 1,2,3-Trichloropropane | 1.0 | <1.0 |
| Bromobenzene | 1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 |
| n-Propylbenzene | 1.0 | <1.0 |
| 2-Chlorotoluene | 1.0 | <1.0 |
| 4-Chlorotoluene | 1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 |
| tert-Butylbenzene | 1.0 | <1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | <1.0 |
| sec-Butylbenzene | 1.0 | <1.0 |
| 1,3-Dichlorobenzene | 1.0 | <1.0 |
| Isopropyltoluene | 1.0 | <1.0 |
| 1,4-Dichlorobenzene | 1.0 | <1.0 |
| 1,2-Dichlorobenzene | 1.0 | <1.0 |
| n-Butylbenzene | 1.0 | <1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 |
| Naphthalenes | 5.0 | <5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 |
| Surrogate Recovery | | |
| Dibromofluoromethane | | 95 |
| 1,2-Dichloroethane-d4 | | 83 |
| Toluene-d8 | | 99 |
| 4-Bromofluorobenzene | | 100 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131108-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B12-W | | | | | | | |
|------------------------------|---------------------|-----------------------|--------------------|------------------------|-----------------------|--------------------|------|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | (%) |
| 1,1-Dichloroethene | 10 | 7.6 | 76 | 10 | 8.6 | 86 | 12.3 |
| Benzene | 10 | 10.8 | 108 | 10 | 11.0 | 110 | 1.8 |
| Toluene | 10 | 10.5 | 105 | 10 | 10.5 | 105 | 0.0 |
| Chlorobenzene | 10 | 11.0 | 110 | 10 | 11.4 | 114 | 3.6 |
| Trichloroethene (TCE) | 10 | 9.8 | 98 | 10 | 10.0 | 100 | 2.0 |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | | 96 | | | 97 | |
| 1,2-Dichloroethane-d4 | | | 86 | | | 84 | |
| Toluene-d8 | | | 99 | | | 98 | |
| 4-Bromofluorobenzene | | | 87 | | | 96 | |

| Laboratory Control Sample | | | |
|---------------------------|---------------------|-----------------------|--------------------|
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) |
| 1,1-Dichloroethene | 10 | 7.8 | 78 |
| Benzene | 10 | 9.4 | 94 |
| Toluene | 10 | 9.6 | 96 |
| Chlorobenzene | 10 | 9.6 | 96 |
| Trichloroethene (TCE) | 10 | 8.7 | 87 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | | 98 |
| 1,2-Dichloroethane-d4 | | | 84 |
| Toluene-d8 | | | 99 |
| 4-Bromofluorobenzene | | | 86 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (mg/kg) |
|------------------------------|---------------|------------------------|------------------|
| Method Blank | 11/8/13 | 100 | <10 |
| B8-15 | 11/8/13 | 97 | <10 |
| B8-15 Dup | 11/8/13 | 121 | <10 |
| B11-8 | 11/8/13 | 98 | <10 |
| B19-8 | 11/8/13 | 98 | <10 |
| B13-8 | 11/8/13 | 85 | <10 |
| B12-16 | 11/8/13 | 100 | <10 |
| Practical Quantitation Limit | | | 10 |

"nd" Indicates not detected at the listed detection limits.

"E" Indicates that the reported result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline ($\mu\text{g/l}$) |
|------------------------------|---------------|------------------------|------------------------------|
| Method Blank | 11/8/13 | 100 | <100 |
| B8-W | 11/8/13 | 97 | 1280 |
| B8-W Dup | 11/8/13 | 100 | 1260 |
| B11-W | 11/8/13 | 98 | <100 |
| B19-W | 11/8/13 | 106 | <100 |
| B13-W | 11/8/13 | 102 | 1350 |
| B12-W | 11/8/13 | 99 | <100 |
| Practical Quantitation Limit | | | 100 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel (mg/kg) | Oil (mg/kg) |
|------------------------------|---------------|------------------------|----------------|-------------|
| Method Blank | 11/8/13 | 100 | <25 | <40 |
| B8-15 | 11/8/13 | 102 | <25 | <40 |
| B8-15 Dup | 11/8/13 | 80 | <25 | <40 |
| B11-8 | 11/8/13 | 107 | <25 | <40 |
| B19-8 | 11/8/13 | 86 | <25 | <40 |
| B13-8 | 11/8/13 | 81 | <25 | <40 |
| B12-16 | 11/8/13 | 105 | <25 | <40 |
| Practical Quantitation Limit | | | 25 | 40 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131108-10
Client Project # 2214-020A

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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel ($\mu\text{g/l}$) | Oil ($\mu\text{g/l}$) |
|------------------------------|---------------|------------------------|----------------------------|-------------------------|
| Method Blank | 11/8/13 | 100 | <200 | <400 |
| B8-W | 11/8/13 | 105 | <200 | <400 |
| B8-W Dup | 11/8/13 | 79 | <200 | <400 |
| B11-W | 11/8/13 | 105 | <200 | <400 |
| B19-W | 11/8/13 | 79 | <200 | <400 |
| B13-W | 11/8/13 | 77 | <200 | <400 |
| B12-W | 11/8/13 | 101 | <200 | <400 |
| Practical Quantitation Limit | | | 200 | 400 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

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Fax: 360-352-4154

Date: 11-8-13

Page: 1 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address:

Project Name: Restover

City: State: Zip:

Location: 0 City, State: Olympia WA

Phone: Fax:

Collector: Kari Thomas Date of Collection: 11-8

Client Project #

Email:



| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | | Field Notes | | | | | | | |
|---------------|-------|------|-------------|----------------|-----------|---------------------|----------|----------|------------|------------|----------|----------|----------|------------|---------------|-------------|--|--|--|--|--|--|-------------------------------|
| | | | | | VOA 8021B | VOA 8021B BTEX Only | VOA 8260 | SEMI VOL | NWTPH-8270 | NWTPH-HCID | NWTPH-GX | NWTPH-DX | PAH 8270 | PCB's 8082 | MTCA 5 Metals | | | | | | | | |
| 1 B8-15 | 15 | 0820 | Soil | 2VOA/Jar | | X | | | | X | | | | | | | | | | | | | |
| 2 B8-8 | 8 | 0802 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | HOLD |
| 3 B8-W | | 815 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | |
| 4 B11-W | | 855 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | |
| 5 B11-8 | 8 | 835 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | |
| 6 B11-16 | 16 | 845 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | HOLD |
| 7 B19-W | | 935 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | |
| 8 B19-8 | 8 | 923 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | Hold KAT 11-8-13 |
| 9 B19-14 | 14 | 930 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | HOLD |
| 10 B13-8 | 8 | 1010 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | |
| 11 B13-W | | 1020 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | |
| 12 B13-16 | 16 | 1015 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | HOLD |
| 13 B12-16 | 16 | 1045 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | Hold KAT 11-8 |
| 14 B12-7 | 7 | 1042 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | Hold HOLD KAT 11-8 |
| 15 B12-W | | 1040 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | Hold KAT 11-8 |
| 16 B15-W | | 1115 | water | 2VOA/amber | | | | | | | | | | | | | | | | | | | |
| 17 B15-8 | | 1105 | Soil | 2VOA/Jar | | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-----------------------------|---------------------------|-------------------------------|---------------------------|-----------------------------|----------------------|
| Relinquished by: <i>KAT</i> | Date / Time: 11/8/13 1500 | Received by: <i>Paul Bink</i> | Date / Time: 11/8/13 1500 | Sample Receipt: | Remarks: |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Good Condition? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Cold? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Seals Intact? | |
| | | | | Total Number of Containers: | TAT: 24HR 48HR 5-DAY |

Libby Environmental, Inc.

Chain of Custody Record

4139 Libby Road NE Ph: 360-352-2110

Olympia, WA 98506 Fax: 360-352-4154

Date: 11/8/13

Page: 2 of 2

Client: Robinson Noble

Project Manager: John Hildenbrand

Address:

Project Name: Restover

City: State: Zip:

Location: City, State: Olympia WA

Phone: Fax:

Collector: KARI THOMAS Date of Collection: 11/8/13

Client Project #

Email:



| Sample Number | Depth | Time | Sample Type | Container Type | Analytes | | | | | | | | | | Field Notes | | | |
|---------------|-------|------|-------------|----------------|-----------|---------------------|----------|---------------|------------|----------|----------|----------|------------|---------------|-------------|--|--|------|
| | | | | | VOA 8021B | VOA 8021B BTEX Only | VOA 8260 | SEMI VOL 8270 | NWTPH-HCID | NWTPH-GX | NWTPH-DX | PAH 8270 | PCB's 8082 | MTCA 5 Metals | | | | |
| 1 B15-16 | 16 | 1110 | Soil | 2VOA/Jar | | X | | | | X | X | | | | | | | HOLD |
| 2 B16-7 | 7 | 1140 | Soil | 2VOA/Jar | | | | | | | | | | | | | | |
| 3 B16-W | 1 | 1145 | Water | 2VOA/Amber | | | | | | | | | | | | | | |
| 4 B10-W | | 1310 | Water | 2VOA/Amber | | | | | | | | | | | | | | |
| 5 B10-8 | 8 | 1255 | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 6 B10-16 | 16 | 1250 | Soil | 2VOA/Jar | | | | | | | | | | | | | | |
| 7 B14-8 | 8 | 1340 | Soil | 2VOA/Jar | | | | | | | | | | | | | | |
| 8 B14-16 | 16 | 1340 | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 9 B14-W | | 1325 | Water | 2VOA/Amber | | | | | | | | | | | | | | |
| 10 B18-8 | 8 | 1355 | Soil | 2VOA/Jar | | | | | | | | | | | | | | |
| 11 B18-16 | 16 | 1405 | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 12 B18-W | | 1400 | Water | 2VOA/Amber | | | | | | | | | | | | | | |
| 13 B17-8 | 8 | 1429 | Soil | 2VOA/Jar | | | | | | | | | | | | | | |
| 14 B17-16 | 16 | 1435 | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 15 B17-W | | 1430 | Water | 2VOA/Amber | | | | | | | | | | | | | | |
| 16 B16-16 | 16 | | Soil | 2VOA/Jar | | | | | | | | | | | | | | HOLD |
| 17 | | | | | | | | | | | | | | | | | | |

| | | | | | |
|-------------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------|----------------------|
| Relinquished by: <u>[Signature]</u> | Date / Time: <u>11/8/13 1500</u> | Received by: <u>[Signature]</u> | Date / Time: <u>11/8/13 1500</u> | Sample Receipt: | Remarks: |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Good Condition? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Cold? | |
| Relinquished by: | Date / Time: | Received by: | Date / Time: | Seals Intact? | |
| | | | | Total Number of Containers | TAT: 24HR 48HR 5-DAY |



Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

November 11, 2013

John Hildenbrand
Robinson Noble
3011 Huson Street South
Suite A
Tacoma, WA 98409

Dear Mr. Hildenbrand:

Please find enclosed the analytical data report for the Restover Project located in Olympia, Washington. Soil and water samples were analyzed for Volatile Organic Compounds by EPA Method 8260C, Gasoline by NWTPH-Gx, and Diesel & Oil by NWTPH-Dx/Dx Extended on November 9, 2013.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work is enclosed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman
President
Libby Environmental, Inc.

Phone (360) 352-2110 • Fax (360) 352-4154 • libbyenv@aol.com

www.LibbyEnvironmental.com

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B15-8 | B16-7 | B16-7 Dup | B10-16 | B14-8 |
|---|-----------|---------|---------|-----------|---------|---------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Chloromethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Vinyl chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Bromomethane | 0.09 | <0.09 | <0.09 | <0.09 | <0.09 | <0.09 |
| Chloroethane | 0.06 | <0.06 | <0.06 | <0.06 | <0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methylene chloride | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Chloroform | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Benzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | 0.19 |
| 1,2-Dichloroethane (EDC) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Dibromomethane | 0.04 | <0.04 | <0.04 | <0.04 | <0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.060 |
| Trans-1,3-Dichloropropene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Chlorobenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Ethylbenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Total Xylenes | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.14 |
| Styrene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | Method | B15-8 | B16-7 | B16-7 Dup | B10-16 | B14-8 |
|-----------------------------|-----------|---------|---------|-----------|---------|---------|
| | Blank | | | | | |
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| Bromoform | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropylbenzene | 0.08 | <0.08 | <0.08 | <0.08 | <0.08 | <0.08 |
| 1,2,3-Trichloropropane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Bromobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,1,2,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Propylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 2-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 4-Chlorotoluene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,3,5-Trimethylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| tert-Butylbenzene | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| 1,2,4-Trimethylbenzene | 0.02 | <0.02 | <0.02 | 0.11 | 0.12 | <0.02 |
| sec-Butylbenzene | 0.02 | <0.02 | <0.02 | 0.054 | 0.065 | <0.02 |
| 1,3-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Isopropyltoluene | 0.02 | <0.02 | <0.02 | 0.037 | 0.040 | <0.02 |
| 1,4-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| 1,2-Dichlorobenzene | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| n-Butylbenzene | 0.02 | <0.02 | <0.02 | 0.083 | 0.094 | <0.02 |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 1,2,4-Trichlorobenzene | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexachloro-1,3-butadiene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Naphthalenes | 0.05 | <0.05 | <0.05 | 0.082 | 0.14 | <0.05 |
| 1,2,3-Trichlorobenzene | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Surrogate Recovery | | | | | | |
| Dibromofluoromethane | | 99 | 96 | 88 | 91 | 95 |
| 1,2-Dichloroethane-d4 | | 89 | 90 | 66 | 81 | 87 |
| Toluene-d8 | | 98 | 98 | 86 | 97 | 100 |
| 4-Bromofluorobenzene | | 92 | 89 | 105 | 106 | 101 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131109-10
Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | | B18-8 | B17-8 |
|---|-----------|---------|---------|
| Date Sampled | Reporting | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) |
| Dichlorodifluoromethane | 0.06 | <0.06 | <0.06 |
| Chloromethane | 0.06 | <0.06 | <0.06 |
| Vinyl chloride | 0.02 | <0.02 | <0.02 |
| Bromomethane | 0.09 | <0.09 | <0.09 |
| Chloroethane | 0.06 | <0.06 | <0.06 |
| Trichlorofluoromethane | 0.05 | <0.05 | <0.05 |
| 1,1-Dichloroethene | 0.05 | <0.05 | <0.05 |
| Methylene chloride | 0.02 | <0.02 | <0.02 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 0.05 | <0.05 | <0.05 |
| <i>trans</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 |
| 1,1-Dichloroethane | 0.03 | <0.03 | <0.03 |
| 2,2-Dichloropropane | 0.05 | <0.05 | <0.05 |
| <i>cis</i> -1,2-Dichloroethene | 0.02 | <0.02 | <0.02 |
| Chloroform | 0.02 | <0.02 | <0.02 |
| 1,1,1-Trichloroethane (TCA) | 0.02 | <0.02 | <0.02 |
| Carbon tetrachloride | 0.03 | <0.03 | <0.03 |
| 1,1-Dichloropropene | 0.02 | <0.02 | <0.02 |
| Benzene | 0.02 | <0.02 | <0.02 |
| 1,2-Dichloroethane (EDC) | 0.03 | <0.03 | <0.03 |
| Trichloroethene (TCE) | 0.03 | <0.03 | <0.03 |
| 1,2-Dichloropropane | 0.02 | <0.02 | <0.02 |
| Dibromomethane | 0.04 | <0.04 | <0.04 |
| Bromodichloromethane | 0.02 | <0.02 | <0.02 |
| <i>cis</i> -1,3-Dichloropropene | 0.02 | <0.02 | <0.02 |
| Toluene | 0.03 | <0.03 | <0.03 |
| Trans-1,3-Dichloropropene | 0.03 | <0.03 | <0.03 |
| 1,1,2-Trichloroethane | 0.03 | <0.03 | <0.03 |
| Tetrachloroethene (PCE) | 0.02 | <0.02 | <0.02 |
| 1,3-Dichloropropane | 0.05 | <0.05 | <0.05 |
| Dibromochloromethane | 0.03 | <0.03 | <0.03 |
| 1,2-Dibromoethane (EDB) * | 0.005 | <0.005 | <0.005 |
| Chlorobenzene | 0.02 | <0.02 | <0.02 |
| 1,1,1,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 |
| Ethylbenzene | 0.03 | <0.03 | <0.03 |
| Total Xylenes | 0.03 | <0.03 | <0.03 |
| Styrene | 0.02 | <0.02 | <0.02 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Soil

| Sample Description | | B18-8 | B17-8 |
|-----------------------------|-----------|---------|---------|
| Date Sampled | Reporting | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 |
| | (mg/kg) | (mg/kg) | (mg/kg) |
| Bromoform | 0.03 | <0.03 | <0.03 |
| Isopropylbenzene | 0.08 | <0.08 | <0.08 |
| 1,2,3-Trichloropropane | 0.03 | <0.03 | <0.03 |
| Bromobenzene | 0.03 | <0.03 | <0.03 |
| 1,1,2,2-Tetrachloroethane | 0.03 | <0.03 | <0.03 |
| n-Propylbenzene | 0.02 | <0.02 | <0.02 |
| 2-Chlorotoluene | 0.02 | <0.02 | <0.02 |
| 4-Chlorotoluene | 0.02 | <0.02 | <0.02 |
| 1,3,5-Trimethylbenzene | 0.02 | <0.02 | <0.02 |
| tert-Butylbenzene | 0.02 | <0.02 | <0.02 |
| 1,2,4-Trimethylbenzene | 0.02 | <0.02 | <0.02 |
| sec-Butylbenzene | 0.02 | <0.02 | <0.02 |
| 1,3-Dichlorobenzene | 0.03 | <0.03 | <0.03 |
| Isopropyltoluene | 0.02 | <0.02 | <0.02 |
| 1,4-Dichlorobenzene | 0.03 | <0.03 | <0.03 |
| 1,2-Dichlorobenzene | 0.03 | <0.03 | <0.03 |
| n-Butylbenzene | 0.02 | <0.02 | <0.02 |
| 1,2-Dibromo-3-Chloropropane | 0.05 | <0.05 | <0.05 |
| 1,2,4-Trichlorobenzene | 0.05 | <0.05 | <0.05 |
| Hexachloro-1,3-butadiene | 0.10 | <0.10 | <0.10 |
| Naphthalenes | 0.05 | <0.05 | <0.05 |
| 1,2,3-Trichlorobenzene | 0.10 | <0.10 | <0.10 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | 68 | 95 |
| 1,2-Dichloroethane-d4 | | 92 | 89 |
| Toluene-d8 | | 102 | 103 |
| 4-Bromofluorobenzene | | 103 | 104 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B10-16 | | | | | | | |
|-------------------------------|----------------------|------------------------|--------------------|------------------------|------------------------|--------------------|-----|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) | |
| 1,1-Dichloroethene | 0.50 | 0.41 | 82 | 0.50 | 0.42 | 84 | 2.4 |
| Benzene | 0.50 | 0.61 | 122 | 0.50 | 0.60 | 120 | 1.7 |
| Toluene | 0.50 | 0.62 | 124 | 0.50 | 0.61 | 122 | 1.6 |
| Chlorobenzene | 0.50 | 0.64 | 128 | 0.50 | 0.58 | 116 | 9.8 |
| Trichloroethene (TCE) | 0.50 | 0.55 | 110 | 0.50 | 0.56 | 112 | 1.8 |

| Surrogate Recovery | | | | |
|-----------------------|--|--|-----|-----|
| Dibromofluoromethane | | | 75 | 107 |
| 1,2-Dichloroethane-d4 | | | 91 | 93 |
| Toluene-d8 | | | 102 | 111 |
| 4-Bromofluorobenzene | | | 103 | 87 |

| Laboratory Control Sample | | | |
|---------------------------|----------------------|------------------------|--------------------|
| | Spiked Conc. (mg/kg) | Measured Conc. (mg/kg) | Spike Recovery (%) |
| 1,1-Dichloroethene | 0.50 | 0.44 | 88 |
| Benzene | 0.50 | 0.55 | 110 |
| Toluene | 0.50 | 0.55 | 110 |
| Chlorobenzene | 0.50 | 0.58 | 116 |
| Trichloroethene (TCE) | 0.50 | 0.50 | 100 |

| Surrogate Recovery | | | |
|-----------------------|--|--|-----|
| Dibromofluoromethane | | | 100 |
| 1,2-Dichloroethane-d4 | | | 84 |
| Toluene-d8 | | | 98 |
| 4-Bromofluorobenzene | | | 93 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | | Method Blank | B15-W | B15-W Dup | B16-W | B10-W | B14-W |
|---|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Date Sampled | Reporting | N/A | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits (µg/l) | 11/9/13 (µg/l) | 11/9/13 (µg/l) | 11/9/13 (µg/l) | 11/9/13 (µg/l) | 11/9/13 (µg/l) | 11/9/13 (µg/l) |
| Dichlorodifluoromethane | 2.0 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Vinyl chloride | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Bromomethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Chloroethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Trichlorofluoromethane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Methylene chloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2,2-Dichloropropane | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Carbon tetrachloride | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Benzene | 1.0 | <1.0 | <1.0 | <1.0 | 5.3 | <1.0 | 11 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Toluene | 1.0 | <1.0 | <1.0 | <1.0 | 1.6 | <1.0 | 496 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | 55 | <1.0 | 891 |
| Total Xylenes | 2.0 | <2.0 | <2.0 | <2.0 | 66 | <2.0 | 2710 |
| Styrene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | Method | B15-W | B15-W | B16-W | B10-W | B14-W |
|-----------------------------|-----------|---------|---------|---------|---------|---------|
| | Blank | | Dup | | | |
| Date Sampled | Reporting | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 | 11/9/13 |
| | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) | (µg/l) |
| Bromoform | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Isopropylbenzene | 4.0 | <4.0 | <4.0 | 1.9 | <4.0 | 32 |
| 1,2,3-Trichloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Bromobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| n-Propylbenzene | 1.0 | <1.0 | <1.0 | 5.1 | <1.0 | 85 |
| 2-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4-Chlorotoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 171 |
| tert-Butylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 81 |
| 1,2,4-Trimethylbenzene | 1.0 | <1.0 | <1.0 | 23 | <1.0 | 536 |
| sec-Butylbenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5.7 |
| 1,3-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Isopropyltoluene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.5 |
| 1,4-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichlorobenzene | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| n-Butylbenzene | 1.0 | <1.0 | <1.0 | 1.6 | <1.0 | <1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalenes | 5.0 | <5.0 | <5.0 | 10 | <5.0 | 236 |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Surrogate Recovery | | | | | | |
| Dibromofluoromethane | | 99 | 98 | 99 | 97 | 100 |
| 1,2-Dichloroethane-d4 | | 89 | 83 | 83 | 79 | 88 |
| Toluene-d8 | | 98 | 98 | 99 | 93 | 101 |
| 4-Bromofluorobenzene | | 92 | 88 | 98 | 104 | 100 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | | B18-W | B17-W |
|---|-----------|---------|---------|
| Date Sampled | Reporting | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 |
| | (µg/l) | (µg/l) | (µg/l) |
| Dichlorodifluoromethane | 2.0 | <2 | <2 |
| Chloromethane | 2.0 | <2.0 | <2.0 |
| Vinyl chloride | 0.2 | <0.2 | <0.2 |
| Bromomethane | 2.0 | <2.0 | <2.0 |
| Chloroethane | 2.0 | <2.0 | <2.0 |
| Trichlorofluoromethane | 2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethene | 2.0 | <2.0 | <2.0 |
| Methylene chloride | 1.0 | <1.0 | <1.0 |
| Methyl <i>tert</i> - Butyl Ether (MTBE) | 5.0 | <5.0 | <5.0 |
| <i>trans</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | 1.0 | <1.0 | <1.0 |
| 2,2-Dichloropropane | 2.0 | <2.0 | <2.0 |
| <i>cis</i> -1,2-Dichloroethene | 1.0 | <1.0 | <1.0 |
| Chloroform | 1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane (TCA) | 1.0 | <1.0 | <1.0 |
| Carbon tetrachloride | 1.0 | <1.0 | <1.0 |
| 1,1-Dichloropropene | 1.0 | <1.0 | <1.0 |
| Benzene | 1.0 | <1.0 | <1.0 |
| 1,2-Dichloroethane (EDC) | 1.0 | <1.0 | <1.0 |
| Trichloroethene (TCE) | 1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | 1.0 | <1.0 | <1.0 |
| Dibromomethane | 1.0 | <1.0 | <1.0 |
| Bromodichloromethane | 1.0 | <1.0 | <1.0 |
| <i>cis</i> -1,3-Dichloropropene | 1.0 | <1.0 | <1.0 |
| Toluene | 1.0 | <1.0 | <1.0 |
| Trans-1,3-Dichloropropene | 1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 1.0 | <1.0 | <1.0 |
| Tetrachloroethene (PCE) | 1.0 | <1.0 | <1.0 |
| 1,3-Dichloropropane | 1.0 | <1.0 | <1.0 |
| Dibromochloromethane | 1.0 | <1.0 | <1.0 |
| 1,2-Dibromoethane (EDB) * | 0.01 | <0.01 | <0.01 |
| Chlorobenzene | 1.0 | <1.0 | <1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 |
| Ethylbenzene | 1.0 | <1.0 | <1.0 |
| Total Xylenes | 2.0 | <2.0 | <2.0 |
| Styrene | 1.0 | <1.0 | <1.0 |

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

Volatile Organic Compounds by EPA Method 8260C in Water

| Sample Description | | B18-W | B17-W |
|-----------------------------|-----------|---------|---------|
| Date Sampled | Reporting | 11/8/13 | 11/8/13 |
| Date Analyzed | Limits | 11/9/13 | 11/9/13 |
| | (µg/l) | (µg/l) | (µg/l) |
| Bromoform | 1.0 | <1.0 | <1.0 |
| Isopropylbenzene | 4.0 | <4.0 | <4.0 |
| 1,2,3-Trichloropropane | 1.0 | <1.0 | <1.0 |
| Bromobenzene | 1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | <1.0 | <1.0 |
| n-Propylbenzene | 1.0 | <1.0 | <1.0 |
| 2-Chlorotoluene | 1.0 | <1.0 | <1.0 |
| 4-Chlorotoluene | 1.0 | <1.0 | <1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | <1.0 | <1.0 |
| tert-Butylbenzene | 1.0 | <1.0 | <1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | <1.0 | <1.0 |
| sec-Butylbenzene | 1.0 | <1.0 | <1.0 |
| 1,3-Dichlorobenzene | 1.0 | <1.0 | <1.0 |
| Isopropyltoluene | 1.0 | <1.0 | <1.0 |
| 1,4-Dichlorobenzene | 1.0 | <1.0 | <1.0 |
| 1,2-Dichlorobenzene | 1.0 | <1.0 | <1.0 |
| n-Butylbenzene | 1.0 | <1.0 | <1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | <1.0 | <1.0 |
| 1,2,4-Trichlorobenzene | 2.0 | <2.0 | <2.0 |
| Hexachloro-1,3-butadiene | 5.0 | <5.0 | <5.0 |
| Naphthalenes | 5.0 | <5.0 | <5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | <5.0 | <5.0 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | 93 | 99 |
| 1,2-Dichloroethane-d4 | | 67 | 84 |
| Toluene-d8 | | 96 | 101 |
| 4-Bromofluorobenzene | | 107 | 102 |

"nd" Indicates not detected at listed detection limit

"int" Indicates that interference prevents determination

* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
 Robinson Noble
 Olympia, Washington
 Libby Project # L131109-10
 Client Project # 2214-020A

QA/QC Data - EPA 8260C Analyses

| Sample Identification: B10-W | | | | | | | |
|------------------------------|---------------------|-----------------------|--------------------|------------------------|-----------------------|--------------------|-----|
| | Matrix Spike | | | Matrix Spike Duplicate | | | RPD |
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) | (%) |
| 1,1-Dichloroethene | 10 | 9.6 | 96 | 10 | 9.6 | 96 | 0.0 |
| Benzene | 10 | 11.7 | 117 | 10 | 11.1 | 111 | 5.3 |
| Toluene | 10 | 11.9 | 119 | 10 | 11.3 | 113 | 5.2 |
| Chlorobenzene | 10 | 12.3 | 123 | 10 | 11.9 | 119 | 3.3 |
| Trichloroethene (TCE) | 10 | 10.6 | 106 | 10 | 10.3 | 103 | 2.9 |
| Surrogate Recovery | | | | | | | |
| Dibromofluoromethane | | | 101 | | | 98 | |
| 1,2-Dichloroethane-d4 | | | 85 | | | 89 | |
| Toluene-d8 | | | 101 | | | 101 | |
| 4-Bromofluorobenzene | | | 96 | | | 102 | |

| Laboratory Control Sample | | | |
|---------------------------|---------------------|-----------------------|--------------------|
| | Spiked Conc. (µg/l) | Measured Conc. (µg/l) | Spike Recovery (%) |
| 1,1-Dichloroethene | 10 | 8.9 | 89 |
| Benzene | 10 | 11.0 | 110 |
| Toluene | 10 | 10.9 | 109 |
| Chlorobenzene | 10 | 11.6 | 116 |
| Trichloroethene (TCE) | 10 | 10.0 | 100 |
| Surrogate Recovery | | | |
| Dibromofluoromethane | | | 100 |
| 1,2-Dichloroethane-d4 | | | 84 |
| Toluene-d8 | | | 98 |
| 4-Bromofluorobenzene | | | 93 |

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131109-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (mg/kg) |
|------------------------------|---------------|------------------------|------------------|
| Method Blank | 11/9/13 | 98 | <10 |
| B15-8 | 11/9/13 | 98 | <10 |
| B16-7 | 11/9/13 | 86 | <10 |
| B16-7 Dup | 11/9/13 | 97 | <10 |
| B10-16 | 11/9/13 | 100 | <10 |
| B14-8 | 11/9/13 | 100 | <10 |
| B18-8 | 11/9/13 | 102 | <10 |
| B17-8 | 11/9/13 | 103 | <10 |
| Practical Quantitation Limit | | | 10 |

"nd" Indicates not detected at the listed detection limits.

"E" Indicates that the reported result is an estimate because it exceeds the calibration range.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

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RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131109-10
Client Project # 2214-020A

Analyses of Gasoline (NWTPH-Gx) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Gasoline (µg/l) |
|------------------------------|---------------|------------------------|-----------------|
| Method Blank | 11/9/13 | 98 | <100 |
| B15-W | 11/9/13 | 98 | 105 |
| B15-W Dup | 11/9/13 | 99 | 118 |
| B16-W | 11/9/13 | 93 | 842 |
| B10-W | 11/9/13 | 101 | <100 |
| B14-W | 11/9/13 | 101 | 18000 |
| B18-W | 11/9/13 | 96 | <100 |
| B17-W | 11/9/13 | 101 | <100 |
| Practical Quantitation Limit | | | 100 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Robinson Noble
Olympia, Washington
Libby Project # L131109-10
Client Project # 2214-020A

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Phone: (360) 352-2110
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Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel (mg/kg) | Oil (mg/kg) |
|------------------------------|---------------|------------------------|----------------|-------------|
| Method Blank | 11/9/13 | 110 | <25 | <40 |
| B15-8 | 11/9/13 | 112 | <25 | <40 |
| B16-7 | 11/9/13 | int | 175 | <40 |
| B16-7 Dup | 11/9/13 | 94 | 183 | <40 |
| B10-16 | 11/9/13 | 112 | <25 | <40 |
| B14-8 | 11/9/13 | 91 | 55 | <40 |
| B18-8 | 11/9/13 | 107 | <25 | <40 |
| B17-8 | 11/9/13 | 83 | <25 | <40 |
| Practical Quantitation Limit | | | 25 | 40 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

RESTOVER PROJECT
Robinson Noble
Olympia, Washington
Libby Project # L131109-10
Client Project # 2214-020A

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

| Sample Number | Date Analyzed | Surrogate Recovery (%) | Diesel ($\mu\text{g/l}$) | Oil ($\mu\text{g/l}$) |
|------------------------------|---------------|------------------------|----------------------------|-------------------------|
| Method Blank | 11/9/13 | 110 | <200 | <400 |
| B15-W | 11/8/13 | 83 | <200 | <400 |
| B16-W | 11/9/13 | 106 | <200 | <400 |
| B16-W Dup | 11/9/13 | 82 | <200 | <400 |
| B10-W | 11/9/13 | 86 | <200 | <400 |
| B14-W | 11/9/13 | 110 | <200 | <400 |
| B18-W | 11/9/13 | 113 | <200 | <400 |
| B17-W | 11/9/13 | 90 | <200 | <400 |
| Practical Quantitation Limit | | | 200 | 400 |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

APPENDIX C

Site photographs of the Restover Truck Stop (2214-020A)



Retail islands looking north



Rear of convenience store



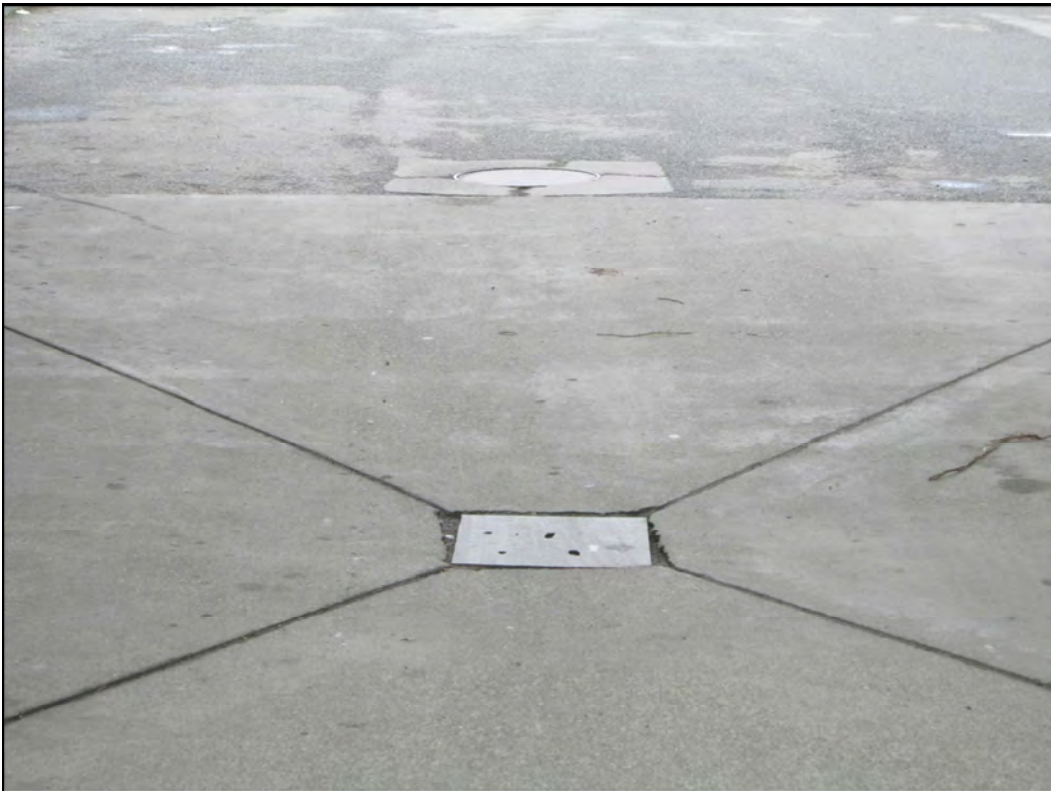
Western end of property and western adjacent property



Staining on dispenser and concrete
(note disrepair of concrete)



Motel



Drain beneath retail canopy
(note possible oil-water separator or sump top center)



Gravel truck parking area, looking south



Restaurant



Fuel island and staining and disrepair



Property adjacent to the north across 93rd Ave SW



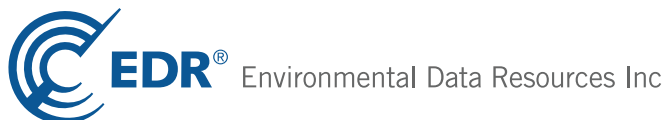
Northeast corner of subject facing Interstate 5 off ramp

APPENDIX D

Restover Truckstop
2729 93rd Avenue Southwest
Olympia, WA 98512

Inquiry Number: 3773458.2s
November 04, 2013

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2729 93RD AVENUE SOUTHWEST
OLYMPIA, WA 98512

COORDINATES

Latitude (North): 46.9527000 - 46° 57' 9.72"
Longitude (West): 122.9406000 - 122° 56' 26.16"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 504520.0
UTM Y (Meters): 5199691.0
Elevation: 200 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 46122-H8 MAYTOWN, WA
Most Recent Revision: 1990

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2011
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

| <u>Site</u> | <u>Database(s)</u> | <u>EPA ID</u> |
|--|---|---------------|
| RESTOVER TRUCK STOP 93RD AVE 2725 93RD AVE OLYMPIA, WA | FINDS | N/A |
| RESTOVER TRUCKSTOP 2725 93RD AVE SW OLYMPIA, WA 98512 | CSCSL ALLSITES HSL Facility Type: Hazardous Sites List LUST UST Financial Assurance | N/A |
| REST OVER TRUCK STOP 2715 93RD AVE SW OLYMPIA, WA | SPILLS | N/A |

EXECUTIVE SUMMARY

2725 93RD AVE SW
2725 93RD AVE SW
OLYMPIA, WA 98512

EDR US Hist Auto Stat

N/A

RESTOVER TRUCK STOP
EXIT 99- SCOTT LAKE ROAD
OLYMPIA, WA

SPILLS

N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

EXECUTIVE SUMMARY

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Control Site List

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Sites
ICR..... Independent Cleanup Reports

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Lab Contaminated Site List
HIST CDL..... List of Sites Contaminated by Clandestine Drug Labs
US HIST CDL..... National Clandestine Laboratory Register

EXECUTIVE SUMMARY

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators

DOT OPS..... Incident and Accident Data

DOD..... Department of Defense Sites

FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

US MINES..... Mines Master Index File

TRIS..... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

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

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

PADS..... PCB Activity Database System

MLTS..... Material Licensing Tracking System

RADINFO..... Radiation Information Database

RAATS..... RCRA Administrative Action Tracking System

RMP..... Risk Management Plans

UIC..... Underground Injection Wells Listing

MANIFEST..... Hazardous Waste Manifest Data

DRYCLEANERS..... Drycleaner List

NPDES..... Water Quality Permit System Data

AIRS..... Washington Emissions Data System

Inactive Drycleaners..... Inactive Drycleaners

INDIAN RESERV..... Indian Reservations

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

PRP..... Potentially Responsible Parties

US AIRS..... Aerometric Information Retrieval System Facility Subsystem

2020 COR ACTION..... 2020 Corrective Action Program List

LEAD SMELTERS..... Lead Smelter Sites

PCB TRANSFORMER..... PCB Transformer Registration Database

COAL ASH DOE..... Steam-Electric Plant Operation Data

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

COAL ASH..... Coal Ash Disposal Site Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent NPL

HSL: The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

A review of the HSL list, as provided by EDR, and dated 08/26/2013 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|-----------------------------------|--------------------------------------|------------------|------------------|
| <i>WA DNR WEBSTER NURSERY</i> Facility Type: Hazardous Sites List | <i>9805 BLOMBERG ST SW</i> | <i>SW 1/2 - 1 (0.687 mi.)</i> | <i>13</i> | <i>41</i> |

State- and tribal - equivalent CERCLIS

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

A review of the CSCSL list, as provided by EDR, and dated 07/22/2013 has revealed that there is 1 CSCSL site within approximately 1 mile of the target property.

| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--------------------------------------|-----------------------------------|--------------------------------------|------------------|------------------|
| <i>WA DNR WEBSTER NURSERY</i> | <i>9805 BLOMBERG ST SW</i> | <i>SW 1/2 - 1 (0.687 mi.)</i> | <i>13</i> | <i>41</i> |

EXECUTIVE SUMMARY

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Ecology's Solid Waste Facilities Handbook.

A review of the SWF/LF list, as provided by EDR, and dated 09/25/2013 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|---------------------------------------|--------------------------------------|-----------------|------------------|
| <i>SOUTH SOUND STEEL & RECYCLING</i> | <i>9546 LATHROP INDUSTRIAL</i> | <i>SW 0 - 1/8 (0.103 mi.)</i> | <i>6</i> | <i>18</i> |

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling center locations.

A review of the SWRCY list, as provided by EDR, and dated 07/25/2013 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|---|---------------------------------------|--------------------------------------|-----------------|------------------|
| <i>SOUTH SOUND STEEL & RECYCLING</i> | <i>9546 LATHROP INDUSTRIAL</i> | <i>SW 0 - 1/8 (0.103 mi.)</i> | <i>6</i> | <i>18</i> |

Local Lists of Hazardous waste / Contaminated Sites

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

A review of the ALLSITES list, as provided by EDR, and dated 08/16/2013 has revealed that there are 7 ALLSITES sites within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|--|---------------------------------------|---|------------------|------------------|
| <i>SOUTH SOUND STEEL & RECYCLING</i> | <i>9546 LATHROP INDUSTRIAL</i> | <i>SW 0 - 1/8 (0.103 mi.)</i> | <i>6</i> | <i>18</i> |
| <i>ENVIRONMENTAL & TECHNICAL SPEC</i> | <i>9730 LATHROP INDUSTRIAL</i> | <i>SSW 1/4 - 1/2 (0.278 mi.)</i> | <i>7</i> | <i>30</i> |
| <i>SHELL 93RD AVE SW TUMWATER</i> | <i>2440 93RD AVE SW</i> | <i>E 1/4 - 1/2 (0.294 mi.)</i> | <i>B8</i> | <i>31</i> |
| <i>PILOT TRAVEL CENTER 151</i> | <i>2430 93RD AVE SW</i> | <i>E 1/4 - 1/2 (0.304 mi.)</i> | <i>B9</i> | <i>35</i> |
| <i>JOHNSON & MADDOX CONSTRUCTION</i> | <i>2201 93RD AVE SW</i> | <i>E 1/4 - 1/2 (0.467 mi.)</i> | <i>11</i> | <i>38</i> |
| <u>Lower Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
| <i>DAIRY FRESH FARMS INC</i> | <i>9636 BLOMBERG RD</i> | <i>WSW 1/4 - 1/2 (0.446 mi.)</i> | <i>10</i> | <i>37</i> |
| <i>FOREST LAND MGT CENTER CHEM ST</i> | <i>BLOMBERG ST SW</i> | <i>WSW 1/4 - 1/2 (0.484 mi.)</i> | <i>12</i> | <i>40</i> |

EXECUTIVE SUMMARY

CSCSL NFA: The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead a No Further Action code is entered based upon the type of NFA determination the site received.

A review of the CSCSL NFA list, as provided by EDR, and dated 07/22/2013 has revealed that there is 1 CSCSL NFA site within approximately 0.5 miles of the target property.

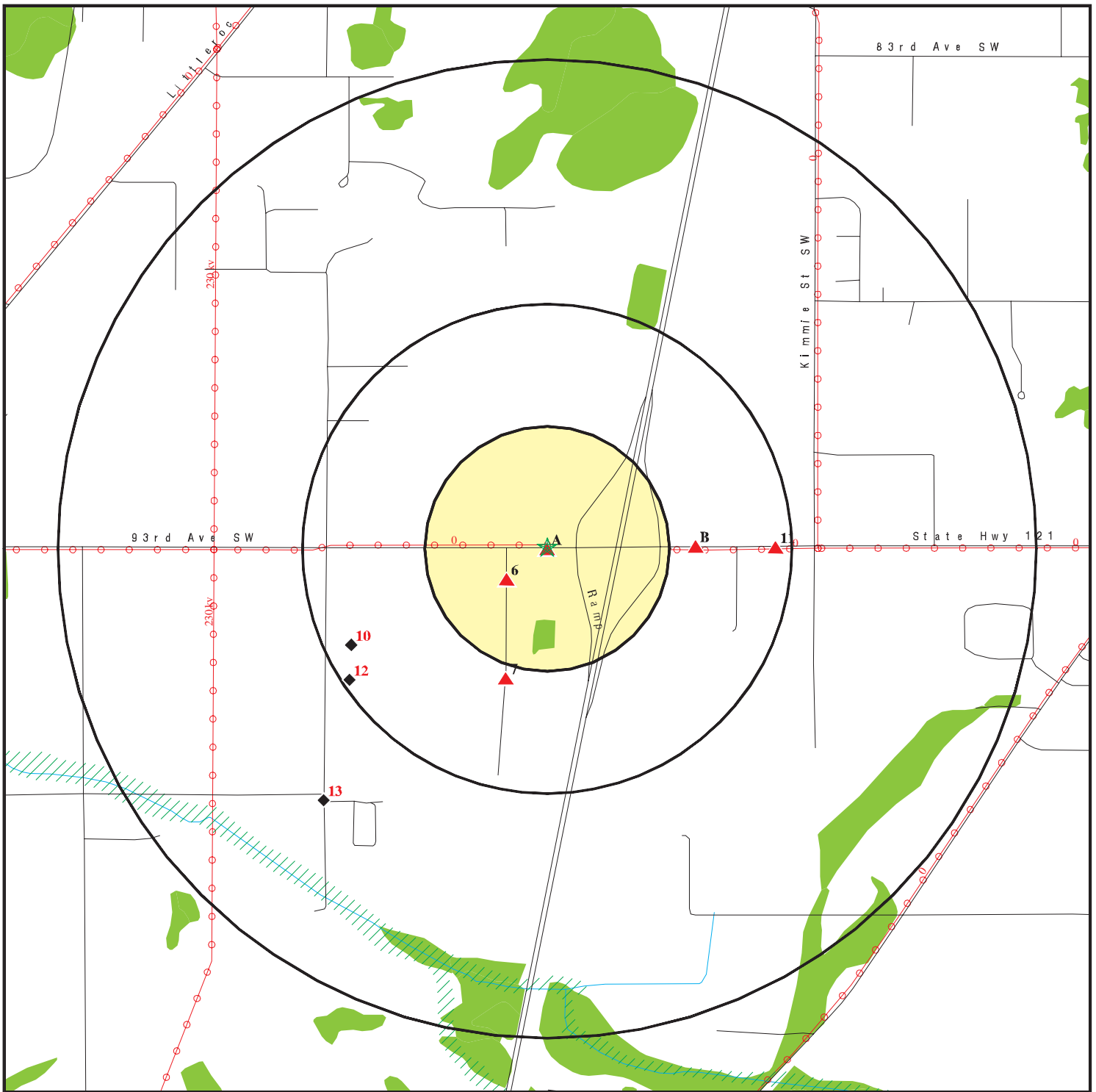
| <u>Equal/Higher Elevation</u> | <u>Address</u> | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-----------------------------------|-------------------------|--------------------------------|---------------|-------------|
| <i>SHELL 93RD AVE SW TUMWATER</i> | <i>2440 93RD AVE SW</i> | <i>E 1/4 - 1/2 (0.294 mi.)</i> | <i>B8</i> | <i>31</i> |

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 11 records.

| <u>Site Name</u> | <u>Database(s)</u> |
|--|--|
| PHILLIPS 66 COMPANY SS 071907 OLD CITY HALL TUMWATER | FINDS, ALLSITES, UST FINDS, CSCSL, ALLSITES, LUST, UST |
| GILLIARDI RECYCLING FACILITY SAIA MOTOR FREIGHT OLYMPIA INTERCITY TRANSIT KEY SHOP OLYMPIA MILLER CENTRAL | FINDS, ALLSITES FINDS, ALLSITES FINDS, ALLSITES, CSCSL NFA FINDS, CSCSL, HSL, ALLSITES, LUST |
| DELS FARM SUPPLY OLYMPIA OLYMPIA CITY UST 101289 OLYMPIA SCHOOL DIST BUS BARN | FINDS, ALLSITES FINDS, ALLSITES, UST FINDS, CSCSL, HSL, ALLSITES, LUST, UST |
| D&W S&S OLD HWY 99 SHORT PLAT THURSTON CO. S.L.F. | ALLSITES ODI |

OVERVIEW MAP - 3773458.2s



★ 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

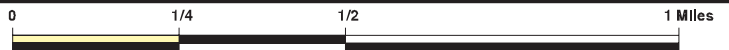
⚡ Power transmission lines

⚡ Oil & Gas pipelines from USGS

▨ 100-year flood zone

▨ 500-year flood zone

■ National Wetland Inventory

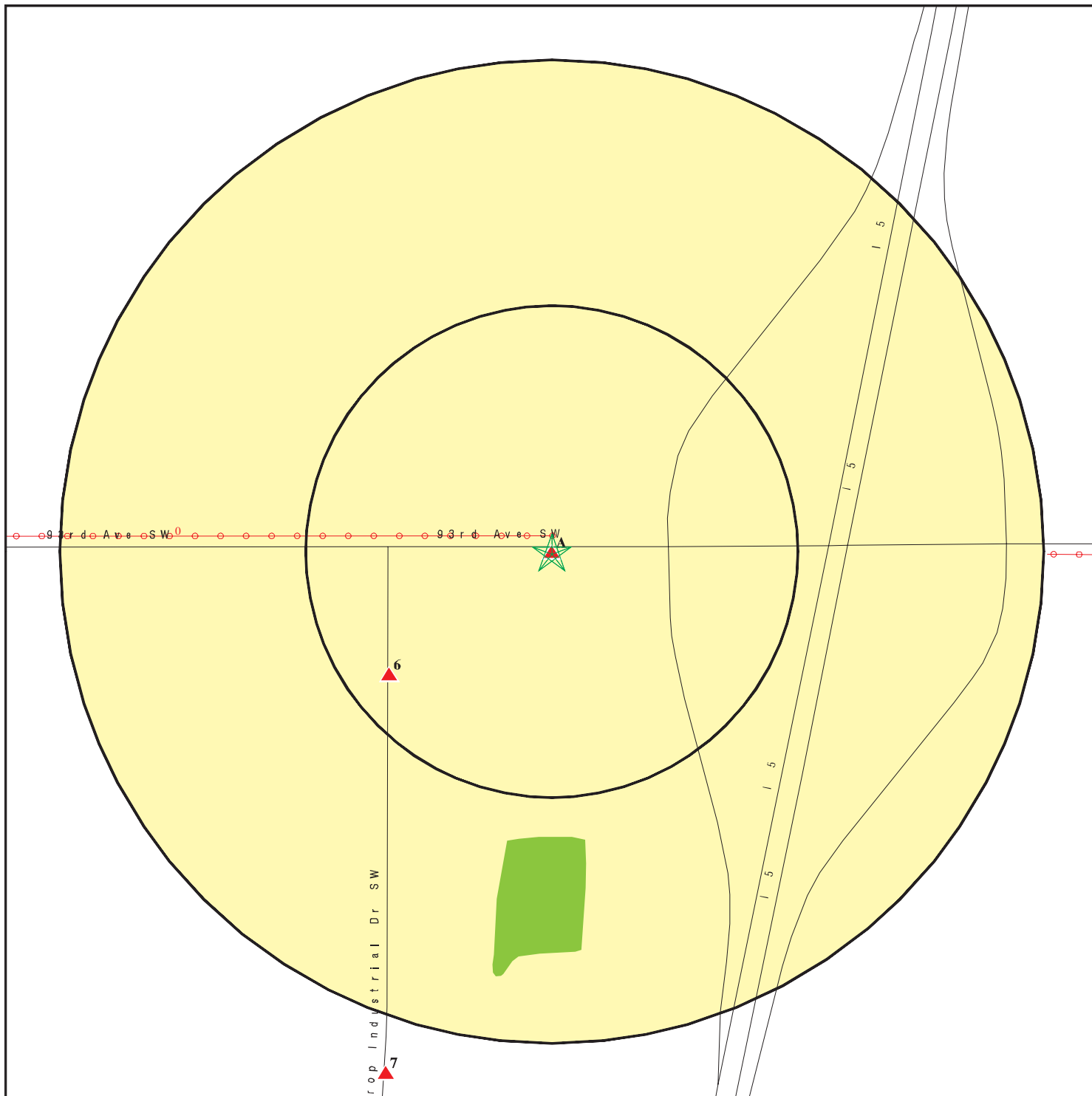


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Restover Truckstop
 ADDRESS: 2729 93rd Avenue Southwest
 Olympia WA 98512
 LAT/LONG: 46.9527 / 122.9406

CLIENT: Robinson & Noble, Inc.
 CONTACT: Tonya Johnson
 INQUIRY #: 3773458.2s
 DATE: November 04, 2013 10:07 am

DETAIL MAP - 3773458.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚚 National Priority List Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- ⚡ Power transmission lines
- 🛢 Oil & Gas pipelines from USGS
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🟢 National Wetland Inventory



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: Restover Truckstop
 ADDRESS: 2729 93rd Avenue Southwest
 Olympia WA 98512
 LAT/LONG: 46.9527 / 122.9406

CLIENT: Robinson & Noble, Inc.
 CONTACT: Tonya Johnson
 INQUIRY #: 3773458.2s
 DATE: November 04, 2013 10:08 am

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 | | | | | | | | |
| <i>Federal NPL site list</i> | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | TP | | NR | NR | NR | NR | NR | 0 |
| <i>Federal Delisted NPL site list</i> | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal CERCLIS list</i> | | | | | | | | |
| CERCLIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal CERCLIS NFRAP site List</i> | | | | | | | | |
| CERC-NFRAP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA CORRACTS facilities list</i> | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| <i>Federal RCRA non-CORRACTS TSD facilities list</i> | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal RCRA generators list</i> | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-CESQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| <i>Federal institutional controls / engineering controls registries</i> | | | | | | | | |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| <i>Federal ERNS list</i> | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| <i>State- and tribal - equivalent NPL</i> | | | | | | | | |
| HSL | 1.000 | 1 | 0 | 0 | 0 | 1 | NR | 2 |
| <i>State- and tribal - equivalent CERCLIS</i> | | | | | | | | |
| CSCSL | 1.000 | 1 | 0 | 0 | 0 | 1 | NR | 2 |
| <i>State and tribal landfill and/or solid waste disposal site lists</i> | | | | | | | | |
| SWF/LF | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| <i>State and tribal leaking storage tank lists</i> | | | | | | | | |
| LUST | 0.500 | 1 | 0 | 0 | 0 | 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 |
|--|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal registered storage tank lists | | | | | | | | |
| UST | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| State and tribal institutional control / engineering control registries | | | | | | | | |
| INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal voluntary cleanup sites | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ICR | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| State and tribal Brownfields sites | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ADDITIONAL ENVIRONMENTAL RECORDS | | | | | | | | |
| Local Brownfield lists | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Landfill / Solid Waste Disposal Sites | | | | | | | | |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| SWTIRE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Local Lists of Hazardous waste / Contaminated Sites | | | | | | | | |
| US CDL | TP | | NR | NR | NR | NR | NR | 0 |
| ALLSITES | 0.500 | 1 | 1 | 0 | 6 | NR | NR | 8 |
| CSCSL NFA | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| CDL | TP | | NR | NR | NR | NR | NR | 0 |
| HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| US HIST 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 | 2 | NR | NR | NR | NR | NR | 2 |
| SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |
| Other Ascertainable Records | | | | | | | | |
| RCRA NonGen / NLR | 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 |
|----------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| DOT OPS | TP | | NR | NR | NR | NR | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| FINDS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| UIC | TP | | NR | NR | NR | NR | NR | 0 |
| MANIFEST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| Inactive Drycleaners | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| 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 |
| PRP | TP | | NR | NR | NR | NR | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NR | NR | NR | 0 |
| PCB TRANSFORMER | 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 |
| COAL ASH | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Financial Assurance | TP | 1 | NR | NR | NR | NR | NR | 1 |

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

| | | | | | | | | |
|-----------------------|-------|---|---|---|----|----|----|---|
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR US Hist Auto Stat | 0.250 | 1 | 0 | 0 | NR | NR | NR | 1 |
| EDR US Hist Cleaners | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

RESTOVER TRUCK STOP 93RD AVE
2725 93RD AVE
OLYMPIA, WA

FINDS **1007078259**
N/A

Site 1 of 5 in cluster A

Actual:
200 ft.

FINDS:

Registry ID: 110015549469

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

A2
Target
Property

RESTOVER TRUCKSTOP
2725 93RD AVE SW
OLYMPIA, WA 98512

CSCSL **U004155421**
ALLSITES **N/A**
HSL
LUST
UST
Financial Assurance

Site 2 of 5 in cluster A

Actual:
200 ft.

CSCSL:

Facility ID: 244
Region: Southwest
Lat/Long: 46.951801000000 / -122.9402890000
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 116
Site Status: Cleanup Complete-Active O&M/Monitoring
PSI?: Not reported
Contaminant Name: Petroleum-Other
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Headquarters

ALLSITES:

Facility Id: 244
Latitude: 46.951801
Longitude: -122.94028
Ecology Interest Type Code: HWG
Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD046683983
Date Interaction: 05/20/1985

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Date Interaction 3: 05/20/1985

Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: RESTOVER TRUCK STOP
Program ID: Not reported
Date Interaction: 03/13/1996
Date Interaction 3: 03/13/1996

Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 4658
Date Interaction: 02/03/1969
Date Interaction 3: 02/03/1969

Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: A
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 4658
Date Interaction: 01/01/1988
Date Interaction 3: 01/01/1988

Facility/Site Interaction T: 567
Geographic Location Identifier (Alias Facid): 244
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD046683983
Interaction Start Date: 05/20/1985
Interaction End Date: 12/31/1991
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 568
Geographic Location Identifier (Alias Facid): 244
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 03/13/1996

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

| | |
|-----------------------------|---------------------------|
| Interaction End Date: | Not reported |
| prgm_facil: | RESTOVER TRUCK STOP |
| cur_sys_pr: | TOXICS |
| cur_sys_nm: | ISIS |
| Facility Id: | 244 |
| Latitude: | 46.951801 |
| Longitude: | -122.94028 |
| Ecology Interest Type Code: | SCS |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | I |
| Interaction 1: | HWG |
| Interaction 2: | Hazardous Waste Generator |
| Ecology Program: | HAZWASTE |
| Program Data: | TURBOWASTE |
| Facility Alt.: | Not reported |
| Program ID: | WAD046683983 |
| Date Interaction: | 05/20/1985 |
| Date Interaction 3: | 05/20/1985 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | SCS |
| Interaction 2: | State Cleanup Site |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | RESTOVER TRUCK STOP |
| Program ID: | Not reported |
| Date Interaction: | 03/13/1996 |
| Date Interaction 3: | 03/13/1996 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 02/03/1969 |
| Date Interaction 3: | 02/03/1969 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | LUST |
| Interaction 2: | LUST Facility |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 01/01/1988 |
| Date Interaction 3: | 01/01/1988 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Facility/Site Interaction T: 567
Geographic Location Identifier (Alias Facid): 244
Interaction (Aka Env Int) Type Code: HWG
Interaction (Aka Env Int) Description: Hazardous Waste Generator
Interaction Status: I
Federal Program Identifier: WAD046683983
Interaction Start Date: 05/20/1985
Interaction End Date: 12/31/1991
prgm_facil: Not reported
cur_sys_pr: HAZWASTE
cur_sys_nm: TURBOWASTE

Facility/Site Interaction T: 568
Geographic Location Identifier (Alias Facid): 244
Interaction (Aka Env Int) Type Code: SCS
Interaction (Aka Env Int) Description: State Cleanup Site
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 03/13/1996
Interaction End Date: Not reported
prgm_facil: RESTOVER TRUCK STOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

Facility Id: 244
Latitude: 46.951801
Longitude: -122.94028
Ecology Interest Type Code: UST
Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: I
Interaction 1: HWG
Interaction 2: Hazardous Waste Generator
Ecology Program: HAZWASTE
Program Data: TURBOWASTE
Facility Alt.: Not reported
Program ID: WAD046683983
Date Interaction: 05/20/1985
Date Interaction 3: 05/20/1985

Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: RESTOVER TRUCK STOP
Program ID: Not reported
Date Interaction: 03/13/1996
Date Interaction 3: 03/13/1996

Facility ID: 244
Facility Company: RESTOVER TRUCK STOP
Interaction: A
Interaction 1: UST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

| | |
|---|---------------------------|
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 02/03/1969 |
| Date Interaction 3: | 02/03/1969 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | LUST |
| Interaction 2: | LUST Facility |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 01/01/1988 |
| Date Interaction 3: | 01/01/1988 |
| Facility/Site Interaction T: | 567 |
| Geographic Location Identifier (Alias Facid): | 244 |
| Interaction (Aka Env Int) Type Code: | HWG |
| Interaction (Aka Env Int) Description: | Hazardous Waste Generator |
| Interaction Status: | I |
| Federal Program Identifier: | WAD046683983 |
| Interaction Start Date: | 05/20/1985 |
| Interaction End Date: | 12/31/1991 |
| prgm_facil: | Not reported |
| cur_sys_pr: | HAZWASTE |
| cur_sys_nm: | TURBOWASTE |
| Facility/Site Interaction T: | 568 |
| Geographic Location Identifier (Alias Facid): | 244 |
| Interaction (Aka Env Int) Type Code: | SCS |
| Interaction (Aka Env Int) Description: | State Cleanup Site |
| Interaction Status: | A |
| Federal Program Identifier: | Not reported |
| Interaction Start Date: | 03/13/1996 |
| Interaction End Date: | Not reported |
| prgm_facil: | RESTOVER TRUCK STOP |
| cur_sys_pr: | TOXICS |
| cur_sys_nm: | ISIS |
| Facility Id: | 244 |
| Latitude: | 46.951801 |
| Longitude: | -122.94028 |
| Ecology Interest Type Code: | LUST |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | I |
| Interaction 1: | HWG |
| Interaction 2: | Hazardous Waste Generator |
| Ecology Program: | HAZWASTE |
| Program Data: | TURBOWASTE |
| Facility Alt.: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

| | |
|---|---------------------------|
| Program ID: | WAD046683983 |
| Date Interaction: | 05/20/1985 |
| Date Interaction 3: | 05/20/1985 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | SCS |
| Interaction 2: | State Cleanup Site |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | RESTOVER TRUCK STOP |
| Program ID: | Not reported |
| Date Interaction: | 03/13/1996 |
| Date Interaction 3: | 03/13/1996 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 02/03/1969 |
| Date Interaction 3: | 02/03/1969 |
| Facility ID: | 244 |
| Facility Company: | RESTOVER TRUCK STOP |
| Interaction: | A |
| Interaction 1: | LUST |
| Interaction 2: | LUST Facility |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 4658 |
| Date Interaction: | 01/01/1988 |
| Date Interaction 3: | 01/01/1988 |
| Facility/Site Interaction T: | 567 |
| Geographic Location Identifier (Alias Facid): | 244 |
| Interaction (Aka Env Int) Type Code: | HWG |
| Interaction (Aka Env Int) Description: | Hazardous Waste Generator |
| Interaction Status: | I |
| Federal Program Identifier: | WAD046683983 |
| Interaction Start Date: | 05/20/1985 |
| Interaction End Date: | 12/31/1991 |
| prgm_facil: | Not reported |
| cur_sys_pr: | HAZWASTE |
| cur_sys_nm: | TURBOWASTE |
| Facility/Site Interaction T: | 568 |
| Geographic Location Identifier (Alias Facid): | 244 |
| Interaction (Aka Env Int) Type Code: | SCS |
| Interaction (Aka Env Int) Description: | State Cleanup Site |
| Interaction Status: | A |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Federal Program Identifier: Not reported
Interaction Start Date: 03/13/1996
Interaction End Date: Not reported
prgm_facil: RESTOVER TRUCK STOP
cur_sys_pr: TOXICS
cur_sys_nm: ISIS

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: THURSTON
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Cleanup Complete-Active O&M/Monitoring
FSID Number: 244
Rank: 3
Region: HQ
EDR Link ID: 244

LUST:

Facility ID: 244
Facility Status: Monitoring
Cleanup Site ID: 116
Cleanup Unit Type: Upland
Process Type: Ecology-supervised or conducted
Alternate Name: RESTOVER TRUCKSTOP
Release Status Date: 01/02/1988
Site Response Unit Code: Headquarters
Lat/Long: 46.951801 / -122.94028

Facility ID: 244
Facility Status: Cleanup Started
Cleanup Site ID: 116
Cleanup Unit Type: Upland
Process Type: Ecology-supervised or conducted
Alternate Name: RESTOVER TRUCKSTOP
Release Status Date: 01/01/1988
Site Response Unit Code: Headquarters
Lat/Long: 46.951801 / -122.94028

UST:

Facility ID: 244
Site Id: 4658
UBI: 6020999490010001
Phone Number: 3603574701
Decimal Latitude: 46.951801000000003
Decimal Longitude: -122.94028900000001

Tank Name: 1
Tag Number: A8413
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/03/1969
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Tank Permit Expiration Date: 02/28/2013
Tank Upgrade Date: 06/28/1991
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Interior Lining
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Flexible Piping
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: A8413
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/03/1969
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 02/28/2013
Tank Upgrade Date: 06/28/1991
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Interior Lining
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Flexible Piping
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 3
Tag Number: A8413
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/03/1969
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 02/28/2013

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Tank Upgrade Date: 06/28/1991
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Interior Lining
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Flexible Piping
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 4
Tag Number: A8413
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/03/1969
Tank Closure Date: Not reported
Capacity Range: 10,000 to 19,999 Gallons
Tank Permit Expiration Date: 02/28/2013
Tank Upgrade Date: 09/01/1985
Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Interior Lining
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Flexible Piping
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 5
Tag Number: A8413
Tank Status: Operational
Tank Status Date: 08/06/1996
Tank Install Date: 00/17/1971
Tank Closure Date: Not reported
Capacity Range: 5,000 to 9,999 Gallons
Tank Permit Expiration Date: 02/28/2013
Tank Upgrade Date: 06/28/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESTOVER TRUCKSTOP (Continued)

U004155421

Tank Spill Prevention: Spill Bucket/Spill Box
Tank Overfill Prevention: Ball Float Valve (vent line)
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Interior Lining
Tank Manifold: Not reported
Tank Release Detection: Automatic Tank Gauging
Tank SFC Type: Not reported
Pipe Material: Flexible Piping
Pipe Construction: Single Wall Pipe
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Corrosion Resistant
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 6
Tag Number: A8413
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/03/1969
Tank Closure Date: Not reported
Capacity Range: 111 TO 1,100 Gallons
Tank Permit Expiration Date: 02/28/2002
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Weekly Manual Gauging
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Automatic Line Leak Detector (ALLD)
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Pressurized System
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

WA Financial Assurance 1:

edr_fstat: WA
edr_fzip: 98502
edr_fcnty: Not reported
edr_zip: Not reported
DOE Site ID: 4658
Site Type: PLIA
Financial Resp Type: Colony (GUS)
Inception Date: 03/05/2011
Expiration Date: 03/05/2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A3
Target REST OVER TRUCK STOP
Property 2715 93RD AVE SW
OLYMPIA, WA

SPILLS S108277701
N/A

Site 3 of 5 in cluster A

Actual:
200 ft.

SPILLS:
Facility ID: 559337
Medium: Not reported
Material Desc: PETROLEUM - DIESEL FUEL
Material Qty: 5
Material Units: GALLON
Date Received: 12/09/2006
Contact Name: JEFFERS
EDR Link ID: 559337

A4
Target 2725 93RD AVE SW
Property OLYMPIA, WA 98512

EDR US Hist Auto Stat 1015381230
N/A

Site 4 of 5 in cluster A

Actual:
200 ft.

EDR Historical Auto Stations:
Name: RESTOVER AUTO TRUCK STOP
Year: 1999
Address: 2725 93RD AVE SW

Name: RESTOVER AUTO TRUCK STOP
Year: 2000
Address: 2725 93RD AVE SW

Name: RESTOVER AUTO TRUCK STOP
Year: 2003
Address: 2725 93RD AVE SW

A5
Target RESTOVER TRUCK STOP
Property EXIT 99- SCOTT LAKE ROAD
OLYMPIA, WA

SPILLS S109884589
N/A

Site 5 of 5 in cluster A

Actual:
200 ft.

SPILLS:
Facility ID: 531556
Medium: Not reported
Material Desc: PETROLEUM - HYDRAULIC OIL
Material Qty: Not reported
Material Units: Not reported
Date Received: 01/25/2003
Contact Name: Not reported
EDR Link ID: 531556

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

6
SW
< 1/8
0.103 mi.
546 ft.

SOUTH SOUND STEEL & RECYCLING INC
9546 LATHROP INDUSTRIAL DR SW
TUMWATER, WA 98512

ALLSITES **S108654952**
SWF/LF **N/A**
SWRCY
NPDES

Relative:
Higher

ALLSITES:

Actual:
201 ft.

| | |
|-----------------------------|-----------------------------------|
| Facility Id: | 3483630 |
| Latitude: | 46.951825 |
| Longitude: | -122.94214 |
| Ecology Interest Type Code: | ENFORFNL |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | RECOVERY |
| Interaction 2: | Energy Recovery |
| Ecology Program: | W2R |
| Program Data: | SWFD |
| Facility Alt.: | South Sound Steel & Recycling |
| Program ID: | Not reported |
| Date Interaction: | 01/01/1993 |
| Date Interaction 3: | 01/01/1993 |
| | |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| | |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| | |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

| | |
|---|-----------------------------------|
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | INDUSTGP |
| Interaction 2: | Industrial SW GP |
| Ecology Program: | WATQUAL |
| Program Data: | PARIS |
| Facility Alt.: | SOUTH SOUND STEEL & RECYCLING INC |
| Program ID: | WAR009219 |
| Date Interaction: | 06/07/2007 |
| Date Interaction 3: | 06/07/2007 |
| Facility/Site Interaction T: | 12798 |
| Geographic Location Identifier (Alias Facid): | 3483630 |
| Interaction (Aka Env Int) Type Code: | RECOVERY |
| Interaction (Aka Env Int) Description: | Energy Recovery |
| Interaction Status: | A |
| Federal Program Identifier: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Interaction Start Date: 01/01/1993
Interaction End Date: Not reported
prgm_facil: South Sound Steel & Recycling
cur_sys_pr: W2R
cur_sys_nm: SWFD

Facility/Site Interaction T: 12799
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 01/19/2007
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: WATQUAL
cur_sys_nm: DMS

Facility/Site Interaction T: 81469
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: INDUSTGP
Interaction (Aka Env Int) Description: Industrial SW GP
Interaction Status: A
Federal Program Identifier: WAR009219
Interaction Start Date: 06/07/2007
Interaction End Date: Not reported
prgm_facil: SOUTH SOUND STEEL & RECYCLING INC
cur_sys_pr: WATQUAL
cur_sys_nm: PARIS

Facility Id: 3483630
Latitude: 46.951825
Longitude: -122.94214
Ecology Interest Type Code: INDUSTGP
Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: RECOVERY
Interaction 2: Energy Recovery
Ecology Program: W2R
Program Data: SWFD
Facility Alt.: South Sound Steel & Recycling
Program ID: Not reported
Date Interaction: 01/01/1993
Date Interaction 3: 01/01/1993

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

| | |
|---------------------|-----------------------------------|
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: INDUSTGP
Interaction 2: Industrial SW GP
Ecology Program: WATQUAL
Program Data: PARIS
Facility Alt.: SOUTH SOUND STEEL & RECYCLING INC
Program ID: WAR009219
Date Interaction: 06/07/2007
Date Interaction 3: 06/07/2007

Facility/Site Interaction T: 12798
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: RECOVERY
Interaction (Aka Env Int) Description: Energy Recovery
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 01/01/1993
Interaction End Date: Not reported
prgm_facil: South Sound Steel & Recycling
cur_sys_pr: W2R
cur_sys_nm: SWFD

Facility/Site Interaction T: 12799
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 01/19/2007
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: WATQUAL
cur_sys_nm: DMS

Facility/Site Interaction T: 81469
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: INDUSTGP
Interaction (Aka Env Int) Description: Industrial SW GP
Interaction Status: A
Federal Program Identifier: WAR009219
Interaction Start Date: 06/07/2007
Interaction End Date: Not reported
prgm_facil: SOUTH SOUND STEEL & RECYCLING INC
cur_sys_pr: WATQUAL
cur_sys_nm: PARIS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Facility Id: 3483630
Latitude: 46.951825
Longitude: -122.94214
Ecology Interest Type Code: RECOVERY
Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: RECOVERY
Interaction 2: Energy Recovery
Ecology Program: W2R
Program Data: SWFD
Facility Alt.: South Sound Steel & Recycling
Program ID: Not reported
Date Interaction: 01/01/1993
Date Interaction 3: 01/01/1993

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final
Ecology Program: WATQUAL
Program Data: DMS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 01/19/2007
Date Interaction 3: 01/19/2007

Facility ID: 3483630
Facility Company: South Sound Steel & Recycling Inc
Interaction: A
Interaction 1: ENFORFNL
Interaction 2: Enforcement Final

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

| | |
|---------------------|-----------------------------------|
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

| | |
|---|-----------------------------------|
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | ENFORFNL |
| Interaction 2: | Enforcement Final |
| Ecology Program: | WATQUAL |
| Program Data: | DMS |
| Facility Alt.: | Not reported |
| Program ID: | Not reported |
| Date Interaction: | 01/19/2007 |
| Date Interaction 3: | 01/19/2007 |
| Facility ID: | 3483630 |
| Facility Company: | South Sound Steel & Recycling Inc |
| Interaction: | A |
| Interaction 1: | INDUSTGP |
| Interaction 2: | Industrial SW GP |
| Ecology Program: | WATQUAL |
| Program Data: | PARIS |
| Facility Alt.: | SOUTH SOUND STEEL & RECYCLING INC |
| Program ID: | WAR009219 |
| Date Interaction: | 06/07/2007 |
| Date Interaction 3: | 06/07/2007 |
| Facility/Site Interaction T: | 12798 |
| Geographic Location Identifier (Alias Facid): | 3483630 |
| Interaction (Aka Env Int) Type Code: | RECOVERY |
| Interaction (Aka Env Int) Description: | Energy Recovery |
| Interaction Status: | A |
| Federal Program Identifier: | Not reported |
| Interaction Start Date: | 01/01/1993 |
| Interaction End Date: | Not reported |
| prgm_facil: | South Sound Steel & Recycling |
| cur_sys_pr: | W2R |
| cur_sys_nm: | SWFD |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Facility/Site Interaction T: 12799
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: ENFORFNL
Interaction (Aka Env Int) Description: Enforcement Final
Interaction Status: A
Federal Program Identifier: Not reported
Interaction Start Date: 01/19/2007
Interaction End Date: Not reported
prgm_facil: Not reported
cur_sys_pr: WATQUAL
cur_sys_nm: DMS

Facility/Site Interaction T: 81469
Geographic Location Identifier (Alias Facid): 3483630
Interaction (Aka Env Int) Type Code: INDUSTGP
Interaction (Aka Env Int) Description: Industrial SW GP
Interaction Status: A
Federal Program Identifier: WAR009219
Interaction Start Date: 06/07/2007
Interaction End Date: Not reported
prgm_facil: SOUTH SOUND STEEL & RECYCLING INC
cur_sys_pr: WATQUAL
cur_sys_nm: PARIS

SWF/LF:

Facility ID: 1104
Region: STATE
Permit Status: EXEMPT
Date Closed: Not reported
Contact Organization: SOUTH SOUND STEEL & RECYCLING
Contact Address1: PO BOX 14400
Contact Address2: Not reported
Contact City: TUMWATER
Contact State: WA
Contact Postal: 98511
Contact EMail: HBRANTLEY@SOUTHSOUNDSTEEL.COM
Contact Phone: 360-705-3532
Contact Phone Ext: Not reported
Permit No: Not reported
Phone: 360-705-3532
Operator Name: Not reported
Operator Organization: Not reported
EMail: hbrantley@southsoundsteel.com
Recycle Survey Code: 5193
Ownership: PRIVATE
Type: RECYCLING FACILITY
Contact Name: HOLLY BRANTLEY
Contact Title: OFFICE MANAGER
Activity1: MATERIAL RECOVERY FACILITY (EXEMPT)

SWRCY:

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Aluminum cans

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Brass

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Aluminum scrap

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Copper

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Ferrous scrap metal

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Batteries
Material Accepted: Vehicle battery (from households*)

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com
Material Category: Metals
Material Accepted: Other metals

Service: South Sound Steel & Recycling Inc.
Phone: 360-705-3532
Extension: Not reported
Website: <http://www.southsoundsteel.com/>
Email: scrap@southsoundsteel.com

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SOUTH SOUND STEEL & RECYCLING INC (Continued)

S108654952

Material Category: Metals
 Material Accepted: Tin cans

Service: South Sound Steel & Recycling Inc.
 Phone: 360-705-3532
 Extension: Not reported
 Website: <http://www.southsoundsteel.com/>
 Email: scrap@southsoundsteel.com

Material Category: Metals
 Material Accepted: Stainless steel

Service: South Sound Steel & Recycling Inc.
 Phone: 360-705-3532
 Extension: Not reported
 Website: <http://www.southsoundsteel.com/>
 Email: scrap@southsoundsteel.com

Material Category: Metals
 Material Accepted: Wire, ferrous, bare

Service: South Sound Steel & Recycling Inc.
 Phone: 360-705-3532
 Extension: Not reported
 Website: <http://www.southsoundsteel.com/>
 Email: scrap@southsoundsteel.com

Material Category: Paper
 Material Accepted: Corrugated cardboard

NPDES:

Facility Status: Active
 Facility Type: Industrial SW GP
 Admin Region: Headquarters
 Date Issued: 10/21/2009
 Latitude: 46.951825
 Longitude: -122.942144
 Permit ID: WAR009219
 Permit Version: 2
 Permit Status: Active
 Permit SubStatus: Coverage Issued
 Ecology Contact: Paul Stasch
 WRIA: Upper Chehalis
 Permit Expiration Date: 01/01/2015
 Effective Date: 01/01/2010

7
SSW
1/4-1/2
0.278 mi.
1467 ft.

ENVIRONMENTAL & TECHNICAL SPECIALISTS
9730 LATHROP INDUSTRIAL DR STE E1
OLYMPIA, WA 98512

ALLSITES S109553774
N/A

Relative:
Higher

Actual:
203 ft.

ALLSITES:

Facility Id: 24729625
 Latitude: 46.953719
 Longitude: -122.94865
 Ecology Interest Type Code: HWG

Facility ID: 24729625
 Facility Company: Environmental & Technical Specialists
 Interaction: I

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ENVIRONMENTAL & TECHNICAL SPECIALISTS (Continued)

S109553774

| | |
|---------------------|---------------------------|
| Interaction 1: | HWG |
| Interaction 2: | Hazardous Waste Generator |
| Ecology Program: | HAZWASTE |
| Program Data: | TURBOWASTE |
| Facility Alt.: | Not reported |
| Program ID: | WAH000004945 |
| Date Interaction: | 04/27/1998 |
| Date Interaction 3: | 04/27/1998 |

B8
East
1/4-1/2
0.294 mi.
1554 ft.

SHELL 93RD AVE SW TUMWATER
2440 93RD AVE SW
TUMWATER, WA 98507
Site 1 of 2 in cluster B

ALLSITES
CSCSL NFA
UST

U003352805
N/A

Relative:
Higher

ALLSITES:

| | |
|-----------------------------|---------------------------|
| Facility Id: | 48556587 |
| Latitude: | 46.952649 |
| Longitude: | -122.86914 |
| Ecology Interest Type Code: | UST |
| Facility ID: | 48556587 |
| Facility Company: | SHELL STATION 93RD AVE SW |
| Interaction: | I |
| Interaction 1: | LUST |
| Interaction 2: | LUST Facility |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 102095 |
| Date Interaction: | 09/04/1992 |
| Date Interaction 3: | 09/04/1992 |

Actual:
202 ft.

| | |
|---------------------|---------------------------|
| Facility ID: | 48556587 |
| Facility Company: | SHELL STATION 93RD AVE SW |
| Interaction: | A |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 102095 |
| Date Interaction: | 10/05/1993 |
| Date Interaction 3: | 10/05/1993 |

| | |
|---------------------|---------------------------|
| Facility ID: | 48556587 |
| Facility Company: | SHELL STATION 93RD AVE SW |
| Interaction: | I |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 10213 |
| Date Interaction: | 06/08/1998 |
| Date Interaction 3: | 06/08/1998 |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL 93RD AVE SW TUMWATER (Continued)

U003352805

Facility Id: 48556587
Latitude: 46.952649
Longitude: -122.86914
Ecology Interest Type Code: LUST
Facility ID: 48556587
Facility Company: SHELL STATION 93RD AVE SW
Interaction: I
Interaction 1: LUST
Interaction 2: LUST Facility
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 102095
Date Interaction: 09/04/1992
Date Interaction 3: 09/04/1992

Facility ID: 48556587
Facility Company: SHELL STATION 93RD AVE SW
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 102095
Date Interaction: 10/05/1993
Date Interaction 3: 10/05/1993

Facility ID: 48556587
Facility Company: SHELL STATION 93RD AVE SW
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 10213
Date Interaction: 06/08/1998
Date Interaction 3: 06/08/1998

CSCSL NFA:
Facility/Site Id: 48556587
CS Id: 9409
NFA Date: 09/09/1992
Rank: Not reported
VCP: No
Latitude: 46.952649000000001
Longitude: -122.869147

UST:
Facility ID: 48556587
Site Id: 102095
UBI: Not reported
Phone Number: Not reported
Decimal Latitude: 46.952649000000001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL 93RD AVE SW TUMWATER (Continued)

U003352805

Decimal Longitude: -122.869147

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: 111 TO 1,100 Gallons
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Not reported
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Not reported
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL 93RD AVE SW TUMWATER (Continued)

U003352805

Tank Name: 3
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: 111 TO 1,100 Gallons
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Not reported
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 4
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Not reported
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispencer/Pump SFC Type: Not reported

Tank Name: 5

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SHELL 93RD AVE SW TUMWATER (Continued)

U003352805

Tag Number: Not reported
 Tank Status: Removed
 Tank Status Date: 08/06/1996
 Tank Install Date: 00/31/1964
 Tank Closure Date: Not reported
 Capacity Range: Not reported
 Tank Permit Expiration Date: Not reported
 Tank Upgrade Date: Not reported
 Tank Spill Prevention: Not reported
 Tank Overfill Prevention: Not reported
 Tank Material: Not reported
 Tank Construction: Not reported
 Tank Tightness Test: Not reported
 Tank Corrosion Protection: Not reported
 Tank Manifold: Not reported
 Tank Release Detection: Not reported
 Tank SFC Type: Not reported
 Pipe Material: Not reported
 Pipe Construction: Not reported
 Pipe Primary Release Detection: Not reported
 Pipe Second Release Detection: Not reported
 Pipe Corrosion Protection: Not reported
 Pipe Pumping System: Not reported
 Responsible Unit: SOUTHWEST
 Dispenser/Pump SFC Type: Not reported

B9
East
1/4-1/2
0.304 mi.
1604 ft.

PILOT TRAVEL CENTER 151
2430 93RD AVE SW
TUMWATER, WA 98512

ALLSITES **S108969920**
SPILLS **N/A**
Financial Assurance

Site 2 of 2 in cluster B

Relative:
Higher

ALLSITES:
 Facility Id: 5885201
 Latitude: 46.954698
 Longitude: -122.93510
 Ecology Interest Type Code: TIER2
 Facility ID: 5885201
 Facility Company: PILOT TRAVEL CENTER 151
 Interaction: A
 Interaction 1: UST
 Interaction 2: Underground Storage Tank
 Ecology Program: TOXICS
 Program Data: ISIS
 Facility Alt.: Not reported
 Program ID: Not reported
 Date Interaction: 09/06/2007
 Date Interaction 3: 09/06/2007

Actual:
202 ft.

Facility ID: 5885201
 Facility Company: PILOT TRAVEL CENTER 151
 Interaction: A
 Interaction 1: TIER2
 Interaction 2: Emergency/Haz Chem Rpt TIER2
 Ecology Program: HAZWASTE
 Program Data: EPCRA
 Facility Alt.: PILOT TRAVEL CENTER 151
 Program ID: CRK000080510

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PILOT TRAVEL CENTER 151 (Continued)

S108969920

Date Interaction: 02/08/2013
Date Interaction 3: 02/08/2013

Facility Id: 5885201
Latitude: 46.954698
Longitude: -122.93510
Ecology Interest Type Code: UST
Facility ID: 5885201
Facility Company: PILOT TRAVEL CENTER 151
Interaction: A
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: Not reported
Date Interaction: 09/06/2007
Date Interaction 3: 09/06/2007

Facility ID: 5885201
Facility Company: PILOT TRAVEL CENTER 151
Interaction: A
Interaction 1: TIER2
Interaction 2: Emergency/Haz Chem Rpt TIER2
Ecology Program: HAZWASTE
Program Data: EPCRA
Facility Alt.: PILOT TRAVEL CENTER 151
Program ID: CRK000080510
Date Interaction: 02/08/2013
Date Interaction 3: 02/08/2013

SPILLS:

Facility ID: 626703
Medium: SOIL
Material Desc: PETROLEUM - DIESEL FUEL
Material Qty: 50
Material Units: GALLON
Date Received: 05/12/2011
Contact Name: Not reported
EDR Link ID: 626703

WA Financial Assurance 1:

edr_fstat: WA
edr_fzip: 98512
edr_fcnty: Not reported
edr_zip: Not reported
DOE Site ID: 619382
Site Type: Other Ins
Financial Resp Type: AISLIC
Inception Date: 09/01/2009
Expiration Date: 09/01/2010

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

10
WSW
1/4-1/2
0.446 mi.
2355 ft.

DAIRY FRESH FARMS INC
9636 BLOMBERG RD
OLYMPIA, WA 98502

ALLSITES **U003353703**
UST **N/A**

Relative:
Lower

ALLSITES:

| | |
|-----------------------------|--------------------------|
| Facility Id: | 58695185 |
| Latitude: | 46.949159 |
| Longitude: | -122.95154 |
| Ecology Interest Type Code: | UST |
| Facility ID: | 58695185 |
| Facility Company: | DAIRY FRESH FARMS INC |
| Interaction: | I |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 1897 |
| Date Interaction: | 06/08/1998 |
| Date Interaction 3: | 06/08/1998 |

Actual:
198 ft.

UST:

| | |
|--------------------|---------------------|
| Facility ID: | 58695185 |
| Site Id: | 1897 |
| UBI: | Not reported |
| Phone Number: | 2063579411 |
| Decimal Latitude: | 46.949159000000002 |
| Decimal Longitude: | -122.95153999999999 |

| | |
|---------------------------------|-----------------|
| Tank Name: | 1. |
| Tag Number: | Not reported |
| Tank Status: | Closed in Place |
| Tank Status Date: | 08/06/1996 |
| Tank Install Date: | 00/31/1964 |
| Tank Closure Date: | Not reported |
| Capacity Range: | Not reported |
| Tank Permit Expiration Date: | Not reported |
| Tank Upgrade Date: | Not reported |
| Tank Spill Prevention: | Not reported |
| Tank Overfill Prevention: | Not reported |
| Tank Material: | Steel |
| Tank Construction: | Not reported |
| Tank Tightness Test: | Not reported |
| Tank Corrosion Protection: | Not reported |
| Tank Manifold: | Not reported |
| Tank Release Detection: | Not reported |
| Tank SFC Type: | Not reported |
| Pipe Material: | Not reported |
| Pipe Construction: | Not reported |
| Pipe Primary Release Detection: | Not reported |
| Pipe Second Release Detection: | Not reported |
| Pipe Corrosion Protection: | Not reported |
| Pipe Pumping System: | Not reported |
| Responsible Unit: | SOUTHWEST |
| Dispencer/Pump SFC Type: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAIRY FRESH FARMS INC (Continued)

U003353703

Tank Name: 2.
Tag Number: Not reported
Tank Status: Closed in Place
Tank Status Date: 08/06/1996
Tank Install Date: 00/31/1964
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispenser/Pump SFC Type: Not reported

11
East
1/4-1/2
0.467 mi.
2467 ft.

JOHNSON & MADDOX CONSTRUCTION CO INC
2201 93RD AVE SW
OLYMPIA, WA 98512

ALLSITES U003355073
UST N/A

Relative:
Higher

ALLSITES:
Facility Id: 45485533
Latitude: 46.952689
Longitude: -122.94163
Ecology Interest Type Code: UST
Facility ID: 45485533
Facility Company: JOHNSON & MADDOX CONSTRUCTION CO INC
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 6410
Date Interaction: 06/01/1982
Date Interaction 3: 06/01/1982

UST:

Facility ID: 45485533
Site Id: 6410
UBI: Not reported
Phone Number: 2067544445
Decimal Latitude: 46.95268899999999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JOHNSON & MADDOX CONSTRUCTION CO INC (Continued)

U003355073

Decimal Longitude: -122.94163

Tank Name: 1
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1982
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1994
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: None
Tank Manifold: Not reported
Tank Release Detection: Manual Inventory Control (daily)
Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Other
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: None
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispenser/Pump SFC Type: Not reported

Tank Name: 2
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 08/06/1996
Tank Install Date: 00/01/1982
Tank Closure Date: Not reported
Capacity Range: Not reported
Tank Permit Expiration Date: 07/01/1994
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Single Wall Tank
Tank Tightness Test: Not reported
Tank Corrosion Protection: None
Tank Manifold: Not reported
Tank Release Detection: Manual Inventory Control (daily)
Tank SFC Type: Not reported
Pipe Material: Steel
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: None
Pipe Pumping System: Not reported
Responsible Unit: SOUTHWEST
Dispenser/Pump SFC Type: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

12
 WSW
 1/4-1/2
 0.484 mi.
 2558 ft.

FOREST LAND MGT CENTER CHEM STORAGE
BLOMBERG ST SW
OLYMPIA, WA 98504

ALLSITES **U003354109**
UST **N/A**

Relative:
Lower

ALLSITES:

| | |
|-----------------------------|-------------------------------------|
| Facility Id: | 77342168 |
| Latitude: | 47.040651 |
| Longitude: | -122.89569 |
| Ecology Interest Type Code: | UST |
| Facility ID: | 77342168 |
| Facility Company: | FOREST LAND MGT CENTER CHEM STORAGE |
| Interaction: | I |
| Interaction 1: | UST |
| Interaction 2: | Underground Storage Tank |
| Ecology Program: | TOXICS |
| Program Data: | ISIS |
| Facility Alt.: | Not reported |
| Program ID: | 3276 |
| Date Interaction: | 06/08/1998 |
| Date Interaction 3: | 06/08/1998 |

Actual:
198 ft.

UST:

| | |
|--------------------|---------------------|
| Facility ID: | 77342168 |
| Site Id: | 3276 |
| UBI: | Not reported |
| Phone Number: | 2067535348 |
| Decimal Latitude: | 47.04065099999997 |
| Decimal Longitude: | -122.89569400000001 |

| | |
|---------------------------------|--------------|
| Tank Name: | 1 |
| Tag Number: | Not reported |
| Tank Status: | Removed |
| Tank Status Date: | 08/06/1996 |
| Tank Install Date: | 00/31/1964 |
| Tank Closure Date: | Not reported |
| Capacity Range: | Not reported |
| Tank Permit Expiration Date: | Not reported |
| Tank Upgrade Date: | Not reported |
| Tank Spill Prevention: | Not reported |
| Tank Overfill Prevention: | Not reported |
| Tank Material: | Steel |
| Tank Construction: | Not reported |
| Tank Tightness Test: | Not reported |
| Tank Corrosion Protection: | Not reported |
| Tank Manifold: | Not reported |
| Tank Release Detection: | Not reported |
| Tank SFC Type: | Not reported |
| Pipe Material: | Not reported |
| Pipe Construction: | Not reported |
| Pipe Primary Release Detection: | Not reported |
| Pipe Second Release Detection: | Not reported |
| Pipe Corrosion Protection: | Not reported |
| Pipe Pumping System: | Not reported |
| Responsible Unit: | SOUTHWEST |
| Dispencer/Pump SFC Type: | Not reported |

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

13
SW
1/2-1
0.687 mi.
3628 ft.

WA DNR WEBSTER NURSERY
9805 BLOMBERG ST SW
TUMWATER, WA 98512

CSCSL S102845969
ALLSITES N/A
HSL

Relative:
Lower

CSCSL:
Facility ID: 8786341
Region: Southwest
Lat/Long: 46.94735 / -122.9508199999
Brownfield Status: Not reported
Rank Status: 3
Clean Up Siteid: 3380
Site Status: Construction Complete-Performance Monitoring
PSI?: Not reported
Contaminant Name: Pesticides-Unspecified
Ground Water: Confirmed Above Cleanup Level
Surface Water: Not reported
Soil: Confirmed Above Cleanup Level
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Actual:
194 ft.

ALLSITES:

Facility Id: 8786341
Latitude: 46.94735
Longitude: -122.95082
Ecology Interest Type Code: SCS
Facility ID: 8786341
Facility Company: WA DNR WEBSTER NURSERY
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5834
Date Interaction: 01/05/2000
Date Interaction 3: 01/05/2000

Facility ID: 8786341
Facility Company: WA DNR WEBSTER NURSERY
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: WA DNR WEBSTER NURSERY
Program ID: Not reported
Date Interaction: 06/01/1996
Date Interaction 3: 06/01/1996

Facility Id: 8786341
Latitude: 46.94735
Longitude: -122.95082
Ecology Interest Type Code: UST
Facility ID: 8786341

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WA DNR WEBSTER NURSERY (Continued)

S102845969

Facility Company: WA DNR WEBSTER NURSERY
Interaction: I
Interaction 1: UST
Interaction 2: Underground Storage Tank
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: Not reported
Program ID: 5834
Date Interaction: 01/05/2000
Date Interaction 3: 01/05/2000

Facility ID: 8786341
Facility Company: WA DNR WEBSTER NURSERY
Interaction: A
Interaction 1: SCS
Interaction 2: State Cleanup Site
Ecology Program: TOXICS
Program Data: ISIS
Facility Alt.: WA DNR WEBSTER NURSERY
Program ID: Not reported
Date Interaction: 06/01/1996
Date Interaction 3: 06/01/1996

HSL:

edr_fstat: WA
edr_fzip: Not reported
edr_fcnty: THURSTON
edr_zip: Not reported
Facility Type: Hazardous Sites List
Facility Status: Construction Complete-Performance Monitoring
FSID Number: 8786341
Rank: 3
Region: SW
EDR Link ID: 8786341

Count: 11 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|----------|------------|-------------------------------|--------------------------------|-------|--|
| OLYMPIA | 1007068298 | PHILLIPS 66 COMPANY SS 071907 | RTE 12 | | FINDS, ALLSITES, UST |
| OLYMPIA | 1007061820 | OLD CITY HALL TUMWATER | 215 2ND AVE | | FINDS, CSCSL, ALLSITES, LUST, UST |
| OLYMPIA | 1011847584 | GILLIARDI RECYCLING FACILITY | SR 510 RESERVATION ROAD | | FINDS, ALLSITES |
| OLYMPIA | 1007728336 | SAIA MOTOR FREIGHT OLYMPIA | CAPITAL WAY BETWEEN 4TH & STAT | | FINDS, ALLSITES |
| OLYMPIA | 1007074631 | INTERCITY TRANSIT KEY SHOP | CAPITOL & STATE ST | | FINDS, ALLSITES, CSCSL NFA |
| OLYMPIA | 1007063805 | OLYMPIA MILLER CENTRAL | 1920 N CENTRAL | | FINDS, CSCSL, HSL, ALLSITES, LUST |
| OLYMPIA | 1007445356 | THURSTON CO. S.L.F. | MARVIN RD. AT INTERSTATE 5 | | ODI |
| OLYMPIA | 1008001572 | DELS FARM SUPPLY OLYMPIA | 7720 OLD HWY 99 SE | | FINDS, ALLSITES |
| OLYMPIA | 1007068569 | OLYMPIA CITY UST 101289 | STATE AVE & PLUM ST | | FINDS, ALLSITES, UST |
| OLYMPIA | 1007072620 | OLYMPIA SCHOOL DIST BUS BARN | 1914 S WILSON | | FINDS, CSCSL, HSL, ALLSITES, LUST, UST |
| TUMWATER | S110039523 | D&W S&S OLD HWY 99 SHORT PLAT | BONNIEWOOD DR SE & OLD HWY 99 | 98512 | ALLSITES |

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: 04/26/2013 | Source: EPA |
| Date Data Arrived at EDR: 05/09/2013 | Telephone: N/A |
| Date Made Active in Reports: 07/10/2013 | Last EDR Contact: 10/11/2013 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 01/20/2014 |
| | 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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 04/26/2013 | Source: EPA |
| Date Data Arrived at EDR: 05/09/2013 | Telephone: N/A |
| Date Made Active in Reports: 07/10/2013 | Last EDR Contact: 10/11/2013 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 01/20/2014 |
| | 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 | Source: EPA |
| Date Data Arrived at EDR: 02/02/1994 | Telephone: 202-564-4267 |
| Date Made Active in Reports: 03/30/1994 | Last EDR Contact: 08/15/2011 |
| Number of Days to Update: 56 | Next Scheduled EDR Contact: 11/28/2011 |
| | Data Release Frequency: No Update Planned |

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

| | |
|---|--|
| Date of Government Version: 04/26/2013 | Source: EPA |
| Date Data Arrived at EDR: 05/09/2013 | Telephone: N/A |
| Date Made Active in Reports: 07/10/2013 | Last EDR Contact: 10/11/2013 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: 01/20/2014 |
| | Data Release Frequency: Quarterly |

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

| | |
|---|--|
| Date of Government Version: 04/26/2013 | Source: EPA |
| Date Data Arrived at EDR: 05/29/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 08/09/2013 | Last EDR Contact: 10/18/2013 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 12/09/2013 |
| | Data Release Frequency: Quarterly |

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: 07/31/2012 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 10/09/2012 | Telephone: 703-603-8704 |
| Date Made Active in Reports: 12/20/2012 | Last EDR Contact: 10/11/2013 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 01/20/2014 |
| | Data Release Frequency: Varies |

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

| | |
|---|--|
| Date of Government Version: 04/26/2013 | Source: EPA |
| Date Data Arrived at EDR: 05/29/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 08/09/2013 | Last EDR Contact: 10/18/2013 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 12/09/2013 |
| | Data Release Frequency: Quarterly |

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

| | |
|---|---|
| Date of Government Version: 06/17/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/21/2013 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 10/03/2013 | Last EDR Contact: 09/10/2013 |
| Number of Days to Update: 104 | Next Scheduled EDR Contact: 12/23/2013 |
| | Data Release Frequency: Varies |

US INST CONTROL: Sites with Institutional Controls

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

| | |
|---|---|
| Date of Government Version: 06/17/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/21/2013 | Telephone: 703-603-0695 |
| Date Made Active in Reports: 10/03/2013 | Last EDR Contact: 09/10/2013 |
| Number of Days to Update: 104 | Next Scheduled EDR Contact: 12/23/2013 |
| | Data Release Frequency: Varies |

LUCIS: Land Use Control Information System

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

| | |
|---|--|
| Date of Government Version: 08/20/2013 | Source: Department of the Navy |
| Date Data Arrived at EDR: 08/23/2013 | Telephone: 843-820-7326 |
| Date Made Active in Reports: 11/01/2013 | Last EDR Contact: 08/15/2013 |
| Number of Days to Update: 70 | Next Scheduled EDR Contact: 09/02/2013 |
| | Data Release Frequency: Varies |

Federal ERNS list

ERNS: Emergency Response Notification System

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

| | |
|---|---|
| Date of Government Version: 12/31/2012 | Source: National Response Center, United States Coast Guard |
| Date Data Arrived at EDR: 01/17/2013 | Telephone: 202-267-2180 |
| Date Made Active in Reports: 02/15/2013 | Last EDR Contact: 10/01/2013 |
| Number of Days to Update: 29 | Next Scheduled EDR Contact: 01/13/2014 |
| | Data Release Frequency: Annually |

State- and tribal - equivalent NPL

HSL: Hazardous Sites List

The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

| | |
|---|--|
| Date of Government Version: 08/26/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 09/13/2013 | Telephone: 360-407-7200 |
| Date Made Active in Reports: 10/16/2013 | Last EDR Contact: 09/11/2013 |
| Number of Days to Update: 33 | Next Scheduled EDR Contact: 12/23/2013 |
| | Data Release Frequency: Semi-Annually |

State- and tribal - equivalent CERCLIS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CSCSL: Confirmed and Suspected Contaminated Sites List

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

| | |
|---|--|
| Date of Government Version: 07/22/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 07/26/2013 | Telephone: 360-407-7200 |
| Date Made Active in Reports: 09/19/2013 | Last EDR Contact: 10/25/2013 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 02/03/2014 |
| | Data Release Frequency: Semi-Annually |

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

SWF/LF: Solid Waste Facility Database

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

| | |
|---|--|
| Date of Government Version: 09/25/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 09/25/2013 | Telephone: 360-407-6132 |
| Date Made Active in Reports: 10/16/2013 | Last EDR Contact: 09/20/2013 |
| Number of Days to Update: 21 | Next Scheduled EDR Contact: 12/23/2013 |
| | Data Release Frequency: Annually |

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks Site List

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

| | |
|---|--|
| Date of Government Version: 08/19/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 08/22/2013 | Telephone: 360-407-7183 |
| Date Made Active in Reports: 09/19/2013 | Last EDR Contact: 08/22/2013 |
| Number of Days to Update: 28 | Next Scheduled EDR Contact: 12/02/2013 |
| | Data Release Frequency: Quarterly |

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: 03/01/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/01/2013 | Telephone: 415-972-3372 |
| Date Made Active in Reports: 04/12/2013 | Last EDR Contact: 10/28/2013 |
| Number of Days to Update: 42 | Next Scheduled EDR Contact: 02/11/2014 |
| | Data Release Frequency: Quarterly |

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

| | |
|---|--|
| Date of Government Version: 08/27/2013 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 08/27/2013 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 11/01/2013 | Last EDR Contact: 10/28/2013 |
| Number of Days to Update: 66 | Next Scheduled EDR Contact: 02/11/2014 |
| | Data Release Frequency: Varies |

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 94

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

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

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

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

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

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

Date of Government Version: 02/08/2013
Date Data Arrived at EDR: 02/08/2013
Date Made Active in Reports: 02/19/2013
Number of Days to Update: 11

Source: Department of Ecology
Telephone: 360-407-7183
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Locations

A listing of aboveground storage tank locations regulated by the Department of Ecology's Spill Prevention, Preparedness and Response Program.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/09/2013
Date Data Arrived at EDR: 05/09/2013
Date Made Active in Reports: 07/25/2013
Number of Days to Update: 77

Source: Department of Ecology
Telephone: 360-407-7562
Last EDR Contact: 08/01/2013
Next Scheduled EDR Contact: 11/18/2013
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: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
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: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/21/2013
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 45

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/17/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Control Site List

Sites that have institutional controls.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 07/26/2013
Date Made Active in Reports: 09/19/2013
Number of Days to Update: 55

Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 10/25/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

ICR: Independent Cleanup Reports

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Cleanup Program Sites

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

| | |
|---|--|
| Date of Government Version: 07/22/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 07/26/2013 | Telephone: 360-407-7200 |
| Date Made Active in Reports: 09/20/2013 | Last EDR Contact: 10/22/2013 |
| Number of Days to Update: 56 | Next Scheduled EDR Contact: 02/03/2014 |
| | Data Release Frequency: Varies |

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

| | |
|---|--|
| Date of Government Version: 09/28/2012 | Source: EPA, Region 1 |
| Date Data Arrived at EDR: 10/02/2012 | Telephone: 617-918-1102 |
| Date Made Active in Reports: 10/16/2012 | Last EDR Contact: 10/01/2013 |
| Number of Days to Update: 14 | Next Scheduled EDR Contact: 01/13/2014 |
| | Data Release Frequency: Varies |

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

| | |
|---|--|
| Date of Government Version: 03/20/2008 | Source: EPA, Region 7 |
| Date Data Arrived at EDR: 04/22/2008 | Telephone: 913-551-7365 |
| Date Made Active in Reports: 05/19/2008 | Last EDR Contact: 04/20/2009 |
| Number of Days to Update: 27 | Next Scheduled EDR Contact: 07/20/2009 |
| | Data Release Frequency: Varies |

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites Listing

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

| | |
|---|--|
| Date of Government Version: 07/22/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 07/26/2013 | Telephone: 360-725-4030 |
| Date Made Active in Reports: 09/19/2013 | Last EDR Contact: 10/25/2013 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 02/03/2014 |
| | Data Release Frequency: Varies |

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: 06/24/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 06/25/2013 | Telephone: 202-566-2777 |
| Date Made Active in Reports: 08/09/2013 | Last EDR Contact: 09/24/2013 |
| Number of Days to Update: 45 | Next Scheduled EDR Contact: 01/08/2014 |
| | Data Release Frequency: Semi-Annually |

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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

SWRCY: Recycling Facility List

A listing of recycling center locations.

Date of Government Version: 07/25/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 09/19/2013
Number of Days to Update: 48

Source: Department of Ecology
Telephone: 360-407-6105
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

SWTIRE: Solid Waste Tire Facilities

This study identified sites statewide with unauthorized accumulations of scrap tires.

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

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/31/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ALLSITES: Facility/Site Identification System Listing

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

| | |
|---|--|
| Date of Government Version: 08/16/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 08/20/2013 | Telephone: 360-407-6423 |
| Date Made Active in Reports: 09/19/2013 | Last EDR Contact: 08/16/2013 |
| Number of Days to Update: 30 | Next Scheduled EDR Contact: 11/18/2013 |
| | Data Release Frequency: Quarterly |

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action

The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead, a No Further Action code is entered based upon the type of NFA determination the site received.

| | |
|---|--|
| Date of Government Version: 07/22/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 07/26/2013 | Telephone: 360-407-7170 |
| Date Made Active in Reports: 09/19/2013 | Last EDR Contact: 10/25/2013 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 02/03/2014 |
| | Data Release Frequency: Semi-Annually |

CDL: Clandestine Drug Lab Contaminated Site List

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

| | |
|---|--|
| Date of Government Version: 08/09/2013 | Source: Department of Health |
| Date Data Arrived at EDR: 08/23/2013 | Telephone: 360-236-3380 |
| Date Made Active in Reports: 09/20/2013 | Last EDR Contact: 08/09/2013 |
| Number of Days to Update: 28 | Next Scheduled EDR Contact: 11/25/2013 |
| | Data Release Frequency: Varies |

HIST CDL: List of Sites Contaminated by Clandestine Drug Labs

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

| | |
|---|---|
| Date of Government Version: 02/08/2007 | Source: Department of Health |
| Date Data Arrived at EDR: 06/26/2007 | Telephone: 360-236-3381 |
| Date Made Active in Reports: 07/19/2007 | Last EDR Contact: 06/02/2008 |
| Number of Days to Update: 23 | Next Scheduled EDR Contact: 09/01/2008 |
| | Data Release Frequency: No Update Planned |

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

| | |
|---|---|
| Date of Government Version: 09/01/2007 | Source: Drug Enforcement Administration |
| Date Data Arrived at EDR: 11/19/2008 | Telephone: 202-307-1000 |
| Date Made Active in Reports: 03/30/2009 | Last EDR Contact: 03/23/2009 |
| Number of Days to Update: 131 | Next Scheduled EDR Contact: 06/22/2009 |
| | Data Release Frequency: No Update Planned |

Local Land Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LIENS 2: CERCLA Lien Information

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

| | |
|---|---|
| Date of Government Version: 02/06/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 04/25/2013 | Telephone: 202-564-6023 |
| Date Made Active in Reports: 05/10/2013 | Last EDR Contact: 11/01/2013 |
| Number of Days to Update: 15 | Next Scheduled EDR Contact: 02/11/2014 |
| | Data Release Frequency: Varies |

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

| | |
|---|---|
| Date of Government Version: 12/31/2012 | Source: U.S. Department of Transportation |
| Date Data Arrived at EDR: 01/03/2013 | Telephone: 202-366-4555 |
| Date Made Active in Reports: 02/27/2013 | Last EDR Contact: 10/01/2013 |
| Number of Days to Update: 55 | Next Scheduled EDR Contact: 01/13/2014 |
| | Data Release Frequency: Annually |

SPILLS: Reported Spills

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

| | |
|---|--|
| Date of Government Version: 09/26/2013 | Source: Department of Ecology |
| Date Data Arrived at EDR: 09/27/2013 | Telephone: 360-407-6950 |
| Date Made Active in Reports: 10/16/2013 | Last EDR Contact: 09/23/2013 |
| Number of Days to Update: 19 | Next Scheduled EDR Contact: 01/08/2014 |
| | Data Release Frequency: Semi-Annually |

SPILLS 90: SPILLS90 data from FirstSearch

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

| | |
|---|---|
| Date of Government Version: 05/23/2006 | Source: FirstSearch |
| Date Data Arrived at EDR: 01/03/2013 | Telephone: N/A |
| Date Made Active in Reports: 03/06/2013 | Last EDR Contact: 01/03/2013 |
| Number of Days to Update: 62 | Next Scheduled EDR Contact: N/A |
| | Data Release Frequency: No Update Planned |

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

| | |
|---|---|
| Date of Government Version: 07/11/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 08/08/2013 | Telephone: (206) 553-1200 |
| Date Made Active in Reports: 09/13/2013 | Last EDR Contact: 10/02/2013 |
| Number of Days to Update: 36 | Next Scheduled EDR Contact: 01/13/2014 |
| | Data Release Frequency: Varies |

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/05/2013
Next Scheduled EDR Contact: 11/18/2013
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: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/30/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/28/2013
Next Scheduled EDR Contact: 09/09/2013
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/05/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/30/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Every 4 Years

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

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

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

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

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

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

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SSTS: Section 7 Tracking Systems

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

| | |
|---|--|
| Date of Government Version: 12/31/2009 | Source: EPA |
| Date Data Arrived at EDR: 12/10/2010 | Telephone: 202-564-4203 |
| Date Made Active in Reports: 02/25/2011 | Last EDR Contact: 10/28/2013 |
| Number of Days to Update: 77 | Next Scheduled EDR Contact: 02/11/2014 |
| | 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: 07/20/2011 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/10/2011 | Telephone: 202-564-5088 |
| Date Made Active in Reports: 01/10/2012 | Last EDR Contact: 10/09/2014 |
| Number of Days to Update: 61 | Next Scheduled EDR Contact: 01/27/2014 |
| | 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: 06/01/2013 | Source: EPA |
| Date Data Arrived at EDR: 07/17/2013 | Telephone: 202-566-0500 |
| Date Made Active in Reports: 11/01/2013 | Last EDR Contact: 10/18/2013 |
| Number of Days to Update: 107 | Next Scheduled EDR Contact: 01/27/2014 |
| | Data Release Frequency: Annually |

MLTS: Material Licensing Tracking System

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

| | |
|---|--|
| Date of Government Version: 07/22/2013 | Source: Nuclear Regulatory Commission |
| Date Data Arrived at EDR: 08/02/2013 | Telephone: 301-415-7169 |
| Date Made Active in Reports: 11/01/2013 | Last EDR Contact: 09/10/2013 |
| Number of Days to Update: 91 | Next Scheduled EDR Contact: 12/23/2013 |
| | Data Release Frequency: Quarterly |

RADINFO: Radiation Information Database

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/09/2013
Next Scheduled EDR Contact: 01/20/2014
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: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 09/11/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

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

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

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: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 08/22/2013
Date Made Active in Reports: 09/19/2013
Number of Days to Update: 28

Source: Department of Ecology
Telephone: 360-407-6143
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2013
Date Made Active in Reports: 06/10/2013
Number of Days to Update: 42

Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner List

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

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2013
Date Made Active in Reports: 06/10/2013
Number of Days to Update: 42

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

NPDES: Water Quality Permit System Data

A listing of permitted wastewater facilities.

Date of Government Version: 07/28/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 09/19/2013
Number of Days to Update: 51

Source: Department of Ecology
Telephone: 360-407-6073
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Quarterly

AIRS (EMI): Washington Emissions Data System

Emissions inventory data.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/11/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 42

Source: Department of Ecology
Telephone: 360-407-6040
Last EDR Contact: 09/23/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Annually

INACTIVE DRYCLEANERS: Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2013
Date Made Active in Reports: 06/10/2013
Number of Days to Update: 42

Source: Department of Ecology
Telephone: 360-407-6732
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/07/2011 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2011 | Telephone: 615-532-8599 |
| Date Made Active in Reports: 05/02/2011 | Last EDR Contact: 10/21/2013 |
| Number of Days to Update: 54 | Next Scheduled EDR Contact: 02/03/2014 |
| | 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: 02/01/2011 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 10/19/2011 | Telephone: 202-566-0517 |
| Date Made Active in Reports: 01/10/2012 | Last EDR Contact: 11/01/2013 |
| Number of Days to Update: 83 | Next Scheduled EDR Contact: 02/11/2014 |
| | Data Release Frequency: Varies |

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

| | |
|---|--|
| Date of Government Version: 04/15/2013 | Source: EPA |
| Date Data Arrived at EDR: 07/03/2013 | Telephone: 202-564-6023 |
| Date Made Active in Reports: 09/13/2013 | Last EDR Contact: 10/04/2013 |
| Number of Days to Update: 72 | Next Scheduled EDR Contact: 01/13/2014 |
| | Data Release Frequency: Quarterly |

FEDLAND: Federal and Indian Lands

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

| | |
|---|--|
| Date of Government Version: 12/31/2005 | Source: U.S. Geological Survey |
| Date Data Arrived at EDR: 02/06/2006 | Telephone: 888-275-8747 |
| Date Made Active in Reports: 01/11/2007 | Last EDR Contact: 10/18/2013 |
| Number of Days to Update: 339 | Next Scheduled EDR Contact: 01/27/2014 |
| | Data Release Frequency: N/A |

COAL ASH DOE: Sleam-Electric Plan Operation Data

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

| | |
|---|--|
| Date of Government Version: 12/31/2005 | Source: Department of Energy |
| Date Data Arrived at EDR: 08/07/2009 | Telephone: 202-586-8719 |
| Date Made Active in Reports: 10/22/2009 | Last EDR Contact: 10/15/2013 |
| Number of Days to Update: 76 | Next Scheduled EDR Contact: 01/27/2014 |
| | Data Release Frequency: Varies |

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

Financial Assurance 2: Financial Assurance Information Listing

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

Date of Government Version: 05/23/2011
Date Data Arrived at EDR: 05/26/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-407-6754
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/20/2013
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 07/25/2013
Number of Days to Update: 34

Source: Department of Ecology
Telephone: 360-407-6933
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

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

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 03/06/2007
Date Made Active in Reports: 04/19/2007
Number of Days to Update: 44

Source: Department of Ecology
Telephone: 360-407-6136
Last EDR Contact: 08/22/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

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

Date of Government Version: 02/24/2012
Date Data Arrived at EDR: 02/24/2012
Date Made Active in Reports: 03/27/2012
Number of Days to Update: 32

Source: Department of Ecology
Telephone: 360-586-1060
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/24/2013
Next Scheduled EDR Contact: 01/20/2014
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 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/27/2013
Next Scheduled EDR Contact: 12/02/2013
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: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/25/2013
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

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

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

EDR US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

KING COUNTY:

Abandoned Landfill Study in King County

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

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

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

SEATTLE COUNTY:

Abandoned Landfill Study in the City of Seattle

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

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

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

SEATTLE/KING COUNTY:

Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project

This report presents the Seattle-King County Health Department's follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

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

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

SNOHOMISH COUNTY:

Solid Waste Sites of Record at Snohomish Health District

Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 11/16/2011
Date Data Arrived at EDR: 03/29/2012
Date Made Active in Reports: 05/03/2012
Number of Days to Update: 35

Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 09/27/2013
Next Scheduled EDR Contact: 01/08/2014
Data Release Frequency: Semi-Annually

TACOMA/PIERCE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Closed Landfill Survey

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

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

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

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2013
Next Scheduled EDR Contact: 12/02/2013
Data Release Frequency: Annually

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: 08/01/2013
Date Data Arrived at EDR: 08/07/2013
Date Made Active in Reports: 09/10/2013
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2013
Next Scheduled EDR Contact: 11/18/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Daycare Center Listing

Source: Department of Social & Health Services

Telephone: 253-383-1735

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RESTOVER TRUCKSTOP
2729 93RD AVENUE SOUTHWEST
OLYMPIA, WA 98512

TARGET PROPERTY COORDINATES

| | |
|-------------------------------|----------------------------|
| Latitude (North): | 46.9527 - 46° 57' 9.72" |
| Longitude (West): | 122.9406 - 122° 56' 26.16" |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 504520.0 |
| UTM Y (Meters): | 5199691.0 |
| Elevation: | 200 ft. above sea level |

USGS TOPOGRAPHIC MAP

| | |
|-----------------------|----------------------|
| Target Property Map: | 46122-H8 MAYTOWN, WA |
| Most Recent Revision: | 1990 |

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 principal 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).

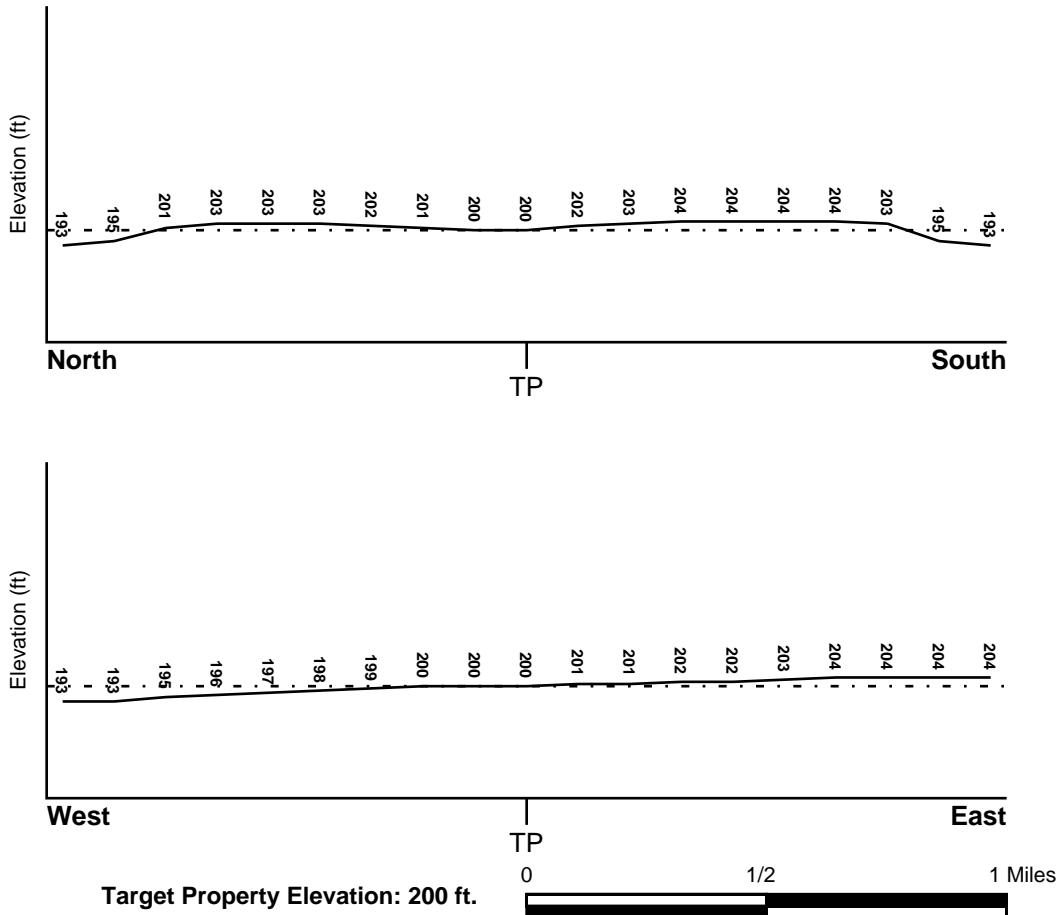
TOPOGRAPHIC INFORMATION

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 NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

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

| | |
|---|--|
| <u>Target Property County</u> THURSTON, WA | FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map |
|---|--|

Flood Plain Panel at Target Property: 5301880280C - FEMA Q3 Flood data

Additional Panels in search area: 5301880300C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

| | |
|---|--|
| <u>NWI Quad at Target Property</u> MAYTOWN | NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map |
|---|--|

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data:*

| | |
|-----------------------------|--|
| Search Radius: | 1.25 miles |
| Location Relative to TP: | 0 - 1/8 Mile East |
| Site Name: | RESTOVER TRUCK STOP |
| Site EPA ID Number: | WAD046683983 |
| Groundwater Flow Direction: | NOT AVAILABLE |
| Measured Depth to Water: | an average of 9.5 feet |
| Hydraulic Connection: | The uppermost aquifer at the site is located in the Vashon recessional outwash and is unconfined to a depth of at least 60 feet. |
| Sole Source Aquifer: | No information about a sole source aquifer is available |
| Data Quality: | Information is inferred in the CERCLIS investigation report(s) |

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.

| <u>MAP ID</u> | <u>LOCATION FROM TP</u> | <u>GENERAL DIRECTION GROUNDWATER FLOW</u> |
|---------------|-------------------------|---|
| 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

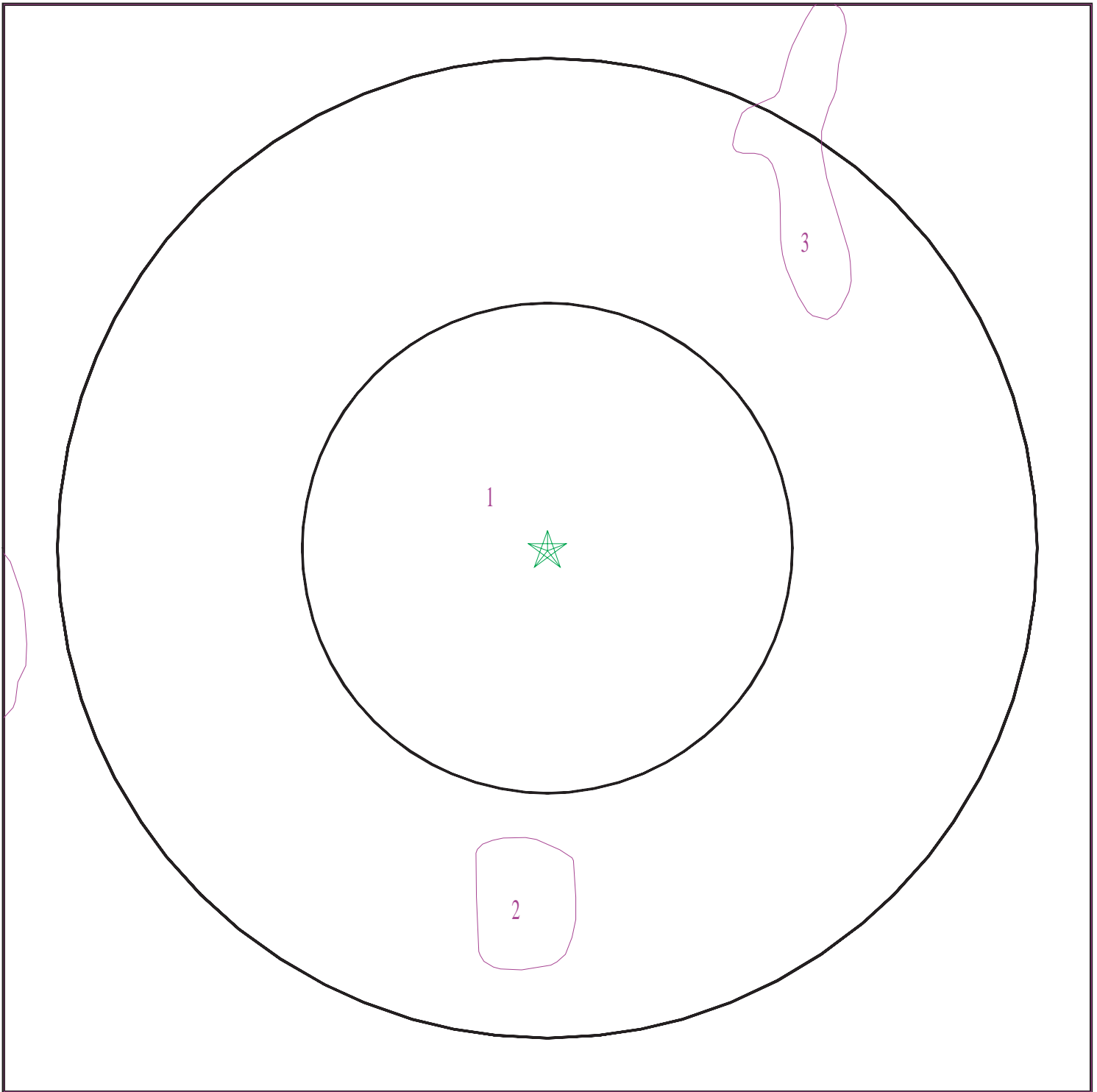
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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 - 3773458.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Restover Truckstop
ADDRESS: 2729 93rd Avenue Southwest
Olympia WA 98512
LAT/LONG: 46.9527 / 122.9406

CLIENT: Robinson & Noble, Inc.
CONTACT: Tonya Johnson
INQUIRY #: 3773458.2s
DATE: November 04, 2013 10:10 am

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: Cagey

Soil Surface Texture: loamy sand

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|---|---|--|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 5 inches | loamy sand | 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: 141 Min: 42 | Max: 7.3 Min: 6.1 |
| 2 | 5 inches | 27 inches | loamy sand | 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: 141 Min: 42 | Max: 7.3 Min: 6.1 |
| 3 | 27 inches | 59 inches | fine sand | Granular materials (35 pct. or less passing No. 200), Fine Sand. | COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141 Min: 42 | Max: 7.3 Min: 6.1 |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: loamy sand

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

Soil Drainage Class:
Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Norma

Soil Surface Texture: silt loam

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

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|------------------------|----------|----------|--------------------|---|---|--|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | silt loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt. | Max: 14 Min: 4 | Max: 6.5 Min: 5.1 |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|------------------------|-----------|-----------|--------------------|---|--|---|----------------------|
| Layer | Boundary | | Soil Texture Class | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| | Upper | Lower | | AASHTO Group | Unified Soil | | |
| 2 | 7 inches | 29 inches | sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 42 Min: 14 | Max: 6.5 Min: 5.6 |
| 3 | 29 inches | 59 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: 42 Min: 14 | Max: 6.5 Min: 5.6 |

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

| <u>DATABASE</u> | <u>SEARCH DISTANCE (miles)</u> |
|------------------|--------------------------------|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

FEDERAL USGS WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-------------------------|
| 1 | USGS40001237080 | 0 - 1/8 Mile NNE |
| A2 | USGS40001237106 | 0 - 1/8 Mile NW |
| A3 | USGS40001237107 | 0 - 1/8 Mile NW |
| 4 | USGS40001237131 | 0 - 1/8 Mile NNE |
| 7 | USGS40001236964 | 1/8 - 1/4 Mile SW |
| 8 | USGS40001237070 | 1/8 - 1/4 Mile West |
| 10 | USGS40001237239 | 1/4 - 1/2 Mile NE |
| 11 | USGS40001237008 | 1/4 - 1/2 Mile ESE |
| B12 | USGS40001236842 | 1/4 - 1/2 Mile SSW |
| C13 | USGS40001237105 | 1/4 - 1/2 Mile ENE |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|--------|-----------------|----------------------|
| D14 | USGS40001237108 | 1/4 - 1/2 Mile WNW |
| D16 | USGS40001237081 | 1/4 - 1/2 Mile West |
| C17 | USGS40001237189 | 1/4 - 1/2 Mile East |
| F19 | USGS40001237382 | 1/4 - 1/2 Mile North |
| F20 | USGS40001237383 | 1/4 - 1/2 Mile North |
| E21 | USGS40001237240 | 1/4 - 1/2 Mile WNW |
| E22 | USGS40001237241 | 1/4 - 1/2 Mile WNW |
| 23 | USGS40001237277 | 1/4 - 1/2 Mile NW |
| G25 | USGS40001237033 | 1/4 - 1/2 Mile East |
| H27 | USGS40001237082 | 1/2 - 1 Mile West |
| H28 | USGS40001237109 | 1/2 - 1 Mile West |
| 29 | USGS40001236831 | 1/2 - 1 Mile WSW |
| 30 | USGS40001237320 | 1/2 - 1 Mile NW |
| I31 | USGS40001237157 | 1/2 - 1 Mile West |
| K33 | USGS40001237471 | 1/2 - 1 Mile NNW |
| I34 | USGS40001237158 | 1/2 - 1 Mile West |
| K35 | USGS40001237472 | 1/2 - 1 Mile NNW |
| 36 | USGS40001236965 | 1/2 - 1 Mile WSW |
| J38 | USGS40001236781 | 1/2 - 1 Mile SW |
| 39 | USGS40001237092 | 1/2 - 1 Mile West |
| L40 | USGS40001237051 | 1/2 - 1 Mile East |
| L41 | USGS40001237007 | 1/2 - 1 Mile East |
| M42 | USGS40001237265 | 1/2 - 1 Mile WNW |
| K43 | USGS40001237510 | 1/2 - 1 Mile NNW |
| N45 | USGS40001237470 | 1/2 - 1 Mile NE |
| N46 | USGS40001237469 | 1/2 - 1 Mile NE |
| M47 | USGS40001237266 | 1/2 - 1 Mile WNW |
| 50 | USGS40001237069 | 1/2 - 1 Mile East |
| 51 | USGS40001236782 | 1/2 - 1 Mile WSW |
| 52 | USGS40001237414 | 1/2 - 1 Mile WNW |
| P53 | USGS40001237215 | 1/2 - 1 Mile ENE |
| P54 | USGS40001237156 | 1/2 - 1 Mile East |
| Q55 | USGS40001236963 | 1/2 - 1 Mile ESE |
| R56 | USGS40001236822 | 1/2 - 1 Mile ESE |
| Q57 | USGS40001236962 | 1/2 - 1 Mile ESE |
| R60 | USGS40001236806 | 1/2 - 1 Mile ESE |
| 61 | USGS40001237001 | 1/2 - 1 Mile West |
| S62 | USGS40001237052 | 1/2 - 1 Mile West |
| 64 | USGS40001236629 | 1/2 - 1 Mile SW |
| 66 | USGS40001236814 | 1/2 - 1 Mile ESE |
| 67 | USGS40001237473 | 1/2 - 1 Mile NW |
| T68 | USGS40001237413 | 1/2 - 1 Mile ENE |
| 69 | USGS40001236558 | 1/2 - 1 Mile SSE |
| S70 | USGS40001237034 | 1/2 - 1 Mile West |
| U71 | USGS40001237412 | 1/2 - 1 Mile ENE |
| 72 | USGS40001236966 | 1/2 - 1 Mile West |
| 73 | USGS40001236541 | 1/2 - 1 Mile SW |
| V74 | USGS40001237600 | 1/2 - 1 Mile NW |
| 75 | USGS40001237190 | 1/2 - 1 Mile West |
| W76 | USGS40001236614 | 1/2 - 1 Mile SW |
| V77 | USGS40001237631 | 1/2 - 1 Mile NW |
| U78 | USGS40001237450 | 1/2 - 1 Mile ENE |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|--------|-----------------|---------------------|
| W79 | USGS40001236615 | 1/2 - 1 Mile SW |
| V80 | USGS40001237632 | 1/2 - 1 Mile NW |
| 81 | USGS40001236841 | 1/2 - 1 Mile ESE |
| 82 | USGS40001236843 | 1/2 - 1 Mile WSW |
| V83 | USGS40001237643 | 1/2 - 1 Mile NW |
| X84 | USGS40001236800 | 1/2 - 1 Mile WSW |
| Y85 | USGS40001237009 | 1/2 - 1 Mile West |
| X86 | USGS40001236783 | 1/2 - 1 Mile WSW |
| 87 | USGS40001236412 | 1/2 - 1 Mile SSE |
| Y88 | USGS40001237002 | 1/2 - 1 Mile West |
| X89 | USGS40001236801 | 1/2 - 1 Mile WSW |
| X90 | USGS40001236751 | 1/2 - 1 Mile WSW |
| X91 | USGS40001236807 | 1/2 - 1 Mile WSW |
| Z92 | USGS40001237091 | 1/2 - 1 Mile East |
| 93 | USGS40001236613 | 1/2 - 1 Mile SE |
| 94 | USGS40001237630 | 1/2 - 1 Mile NE |
| Y95 | USGS40001237053 | 1/2 - 1 Mile West |
| Y96 | USGS40001237017 | 1/2 - 1 Mile West |
| Y97 | USGS40001237018 | 1/2 - 1 Mile West |
| AA98 | USGS40001237437 | 1/2 - 1 Mile ENE |
| AB99 | USGS40001237000 | 1/2 - 1 Mile East |
| AB102 | USGS40001236961 | 1/2 - 1 Mile East |
| AA103 | USGS40001237449 | 1/2 - 1 Mile ENE |
| 104 | USGS40001236628 | 1/2 - 1 Mile SE |
| AB105 | USGS40001236960 | 1/2 - 1 Mile East |
| AC106 | USGS40001236780 | 1/2 - 1 Mile ESE |
| Z107 | USGS40001237068 | 1/2 - 1 Mile East |
| 108 | USGS40001237016 | 1/2 - 1 Mile East |
| 109 | USGS40001237411 | 1/2 - 1 Mile ENE |
| AC110 | USGS40001236799 | 1/2 - 1 Mile ESE |

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---------------------|---------|---------------------|
| No PWS System Found | | |

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

STATE DATABASE WELL INFORMATION

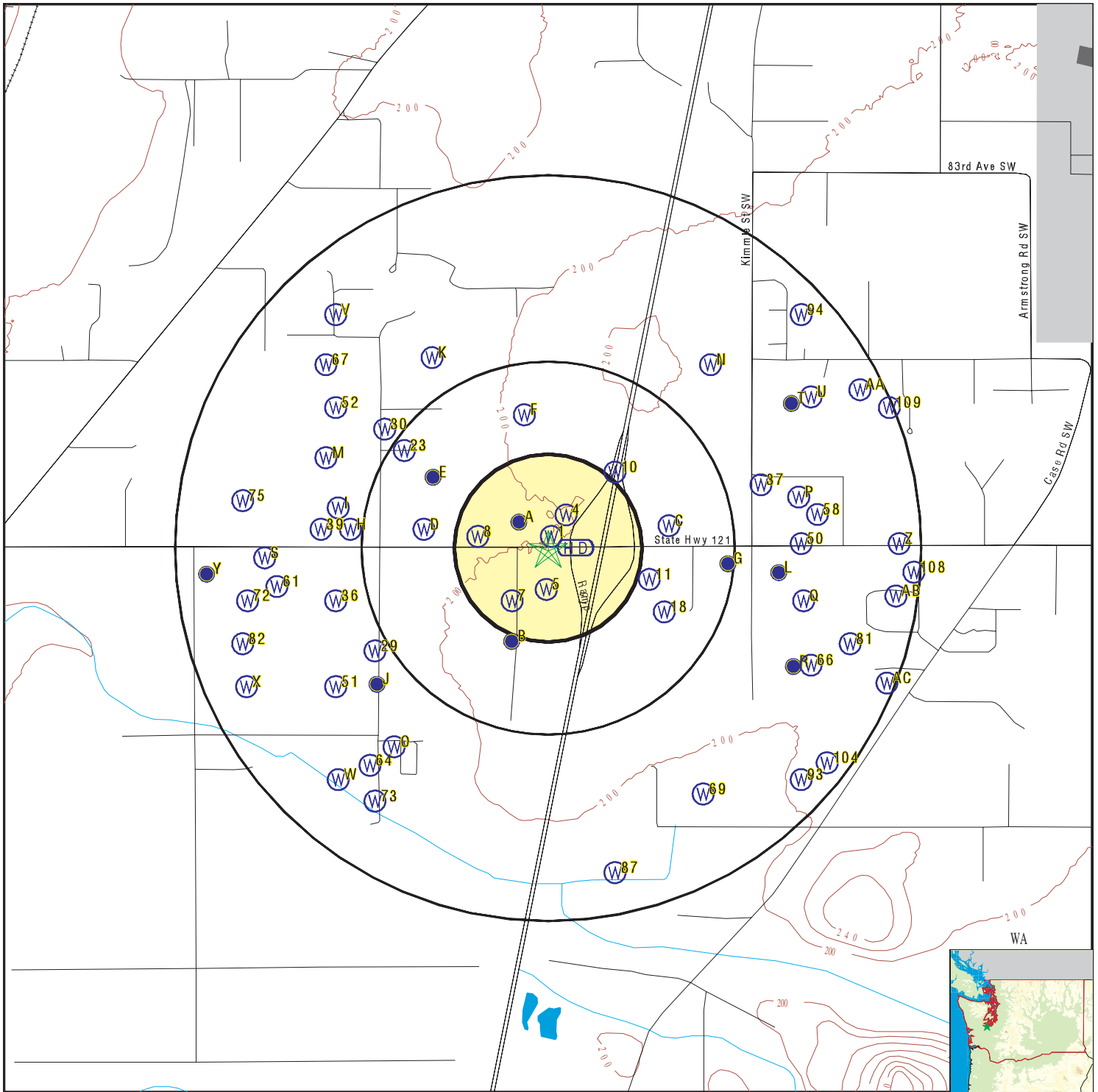
| MAP ID | WELL ID | LOCATION FROM TP |
|--------|-----------------|---------------------|
| 5 | WA7000000005968 | 0 - 1/8 Mile South |
| A6 | WA7000000005998 | 1/8 - 1/4 Mile WNW |
| B9 | WA7000000005949 | 1/4 - 1/2 Mile SSW |
| E15 | WA7000000006007 | 1/4 - 1/2 Mile WNW |
| 18 | WA7000000005959 | 1/4 - 1/2 Mile ESE |
| G24 | WA7000000005981 | 1/4 - 1/2 Mile East |
| G26 | WA7000000005982 | 1/4 - 1/2 Mile East |

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

| <u>MAP ID</u> | <u>WELL ID</u> | <u>LOCATION FROM TP</u> |
|---------------|-----------------|-----------------------------|
| J32 | WA7000000005937 | 1/2 - 1 Mile SW |
| 37 | WA7000000006009 | 1/2 - 1 Mile ENE |
| L44 | WA7000000005970 | 1/2 - 1 Mile East |
| O48 | WA7000000005917 | 1/2 - 1 Mile SW |
| O49 | WA7000000005916 | 1/2 - 1 Mile SW |
| 58 | WA7000000005999 | 1/2 - 1 Mile East |
| R59 | WA7000000005943 | 1/2 - 1 Mile ESE |
| T63 | WA7000000006035 | 1/2 - 1 Mile ENE |
| R65 | WA7000000005941 | 1/2 - 1 Mile ESE |
| Y100 | WA7000000005975 | 1/2 - 1 Mile West |
| Y101 | WA7000000005974 | 1/2 - 1 Mile West |

PHYSICAL SETTING SOURCE MAP - 3773458.2s



- 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
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data

SITE NAME: Restover Truckstop
 ADDRESS: 2729 93rd Avenue Southwest
 Olympia WA 98512
 LAT/LONG: 46.9527 / 122.9406

CLIENT: Robinson & Noble, Inc.
 CONTACT: Tonya Johnson
 INQUIRY #: 3773458.2s
 DATE: November 04, 2013 10:09 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NNE
0 - 1/8 Mile
Higher **FED USGS** **USGS40001237080**

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465712122562101 | | |
| Monloc name: | 17N/02W-16P03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9531531 |
| Longitude: | -122.9404168 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 194 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19800318 | Welldepth: | 58 |
| Welldepth units: | ft | Wellholedepth: | 59 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1980-03-20 | 14 | |

A2
NW
0 - 1/8 Mile
Higher **FED USGS** **USGS40001237106**

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465714122562601 | | |
| Monloc name: | 17N/02W-16P04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9537086 |
| Longitude: | -122.9418058 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 40 |
| Construction date: | 19880401 | Wellholedepth: | 40 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1988-04-01 | 15 | |

**A3
NW
0 - 1/8 Mile
Higher**

FED USGS USGS40001237107

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465714122562701 | | |
| Monloc name: | 17N/02W-16P01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9537086 |
| Longitude: | -122.9420836 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19780727 | Welldepth: | 56.25 |
| Welldepth units: | ft | Wellholedepth: | 56.25 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1978-07-27 | 14 | |

**4
NNE
0 - 1/8 Mile
Higher**

FED USGS USGS40001237131

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465715122561801 | | |
| Monloc name: | 17N/02W-16Q01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9539864 |
| Longitude: | -122.9395835 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|--------------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19010101 | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

**5
South
0 - 1/8 Mile
Higher**

WA WELLS WA7000000005968

| | | | |
|-------------|---------------------|-------------|------------------|
| Objectid: | 12686 | Pwsid: | 71970 |
| Srcnum: | 01 | Pwssrcid: | 7197001 |
| Systemname: | RESTOVER TRUCK STOP | | |
| Systemgrou: | A | | |
| Systemtype: | TNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 1 | Srcname: | WELL #1 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 0 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | NESW | | |
| Longitude: | -122.9407 | | |
| Latitude: | 46.951094 | | |
| Latlongmet: | MAP | Srcsuscept: | H |
| Srcvulnioc: | H | Srcvulnvoc: | H |
| Srcvulnsoc: | U | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3603574701 |
| Priconta 1: | Not Reported | Priconta 2: | 2729 93RD AVE SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 01/01/1970 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005968 |

**A6
WNW
1/8 - 1/4 Mile
Higher**

WA WELLS WA7000000005998

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------|-------------|-----------------|
| Objectid: | 4911 | Pwsid: | 07771 |
| Srcnum: | 01 | Pwssrcid: | 0777101 |
| Systemname: | 93RD AVENUE PARK WEST | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | 119 |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 2 | Srcname: | WELL #1 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 69 | Township: | 17 |
| Range: | 02W | Section: | 16 |
| Qtrqtrsect: | SESW | | |
| Longitude: | -122.942872 | | |
| Latitude: | 46.953726 | | |
| Latlongmet: | GPS | Srcsuscept: | N |
| Srcvulnioc: | U | Srcvulnvoc: | H |
| Srcvulsoc: | X | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3608760958 |
| Priconta 1: | NORTHWEST WATER SYSTEMS | Priconta 2: | PO BOX 123 |
| Priconta 3: | PORT ORCHARD | Priconta 4: | WA |
| Priconta 5: | 983660123 | | |
| Priconta 6: | reg@nwwatersystems.com | | |
| Pwseffecti: | 10/30/2001 | Srceffecti: | 10/30/2001 |
| Internalon: | N | Site id: | WA7000000005998 |

7
SW
1/8 - 1/4 Mile
Higher

FED USGS USGS40001236964

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122562901 | | |
| Monloc name: | 17N/02W-21C01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.942639 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19700101 | Welldepth: | 62 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|--------------------|------------------|
| 1970-07-01 | 14 | |

8

West
1/8 - 1/4 Mile
Higher

FED USGS

USGS40001237070

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465711122562901 | | |
| Monloc name: | 17N/02W-16P02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9531531 |
| Longitude: | -122.9445837 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 193 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19821015 | Welldepth: | 77 |
| Welldepth units: | ft | Wellholedepth: | 77 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|--------------------|------------------|------------|--------------------|------------------|
| 1990-07-24 | 10.93 | | 1988-08-08 | 13.51 | |

B9

SSW
1/4 - 1/2 Mile
Higher

WA WELLS

WA700000005949

| | | | |
|-------------|-----------------------------|-------------|----------------|
| Objectid: | 4635 | Pwsid: | 07344 |
| Srnum: | 01 | Pwssrcid: | 0734401 |
| Systemname: | LATHROP INDUSTRIAL PARK 350 | | |
| Systemgrou: | A | | |
| Systemtype: | NTNC | Region: | SW |
| County: | THURSTON | Smaid: | 147 |
| Ftrespopul: | 3 | Resconnect: | 1 |
| Totalconne: | 19 | Srname: | WELL #1 AHF062 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|------------------------|-------------|------------------------------|
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 164 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | SENW | | |
| Longitude: | -122.942139 | | |
| Latitude: | 46.949176 | | |
| Latlongmet: | GPS | Srcsuscept: | L |
| Srcvulnioc: | M | Srcvulnvoc: | L |
| Srcvulnsoc: | L | Doewelltag: | AHF062 |
| Srctot6mo: | 220 | Srctot1yr: | 310 |
| Srctot5yr: | 700 | Srctot10yr: | 980 |
| Protection: | CFR | Pricontact: | 3603578783 |
| Priconta 1: | Not Reported | Priconta 2: | 921 LAKERIDGE WAY, SUITE 201 |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98502 | | |
| Priconta 6: | kgubbe@thurstonpud.com | | |
| Pwseffecti: | 04/01/1981 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005949 |

**10
NE
1/4 - 1/2 Mile
Higher**

FED USGS USGS40001237239

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465721122560801 | | |
| Monloc name: | 17N/02W-16K01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.955653 |
| Longitude: | -122.9368057 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930714 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------|-----------------------|---------------------|
|------|-----------------------|---------------------|

1993-07-14 12

**11
ESE
1/4 - 1/2 Mile
Higher**

FED USGS USGS40001237008

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465706122560101 | | |
| Monloc name: | 17N/02W-21B01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9514864 |
| Longitude: | -122.934861 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580101 | Welldepth: | 21 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-01-01 | 15 | |

**B12
SSW
1/4 - 1/2 Mile
Higher**

FED USGS USGS40001236842

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465657122563101 | | |
| Monloc name: | 17N/02W-21F01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9489865 |
| Longitude: | -122.9431946 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|-----|
| Aquifer type: | Not Reported | Welldepth: | 178 |
| Construction date: | 19810424 | Wellholedepth: | 178 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-24 | 35.37 | | 1988-09-21 | 39.15 | |

C13
ENE
1/4 - 1/2 Mile
Higher

FED USGS USGS40001237105

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465714122555901 | | |
| Monloc name: | 17N/02W-16Q02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9537086 |
| Longitude: | -122.9343055 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 196 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19790822 | Welldepth: | 54 |
| Welldepth units: | ft | Wellholedepth: | 55 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1979-08-22 | 20 | |

D14
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40001237108

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465714122564601 | | |
| Monloc name: | 17N/02W-16N02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9537086 |
| Longitude: | -122.9473616 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19941227 | Welldepth: | 80 |
| Welldepth units: | ft | Wellholedepth: | 80 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

E15
WNW
1/4 - 1/2 Mile
Lower

WA WELLS WA7000000006007

| | | | |
|-------------|-----------------------------|-------------|-------------------------------|
| Objectid: | 4321 | Pwsid: | 06868 |
| Srcnum: | 01 | Pwssrcid: | 0686801 |
| Systemname: | NORTHWEST PIPELINE | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 1 | Srcname: | WELL #1 NO TAG |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 80 | Township: | 17 |
| Range: | 02W | Section: | 16 |
| Qtrqtrsect: | NESW | | |
| Longitude: | -122.946936 | | |
| Latitude: | 46.95506 | | |
| Latlongmet: | GPS | Srcsuscept: | N |
| Srcvulnioc: | U | Srcvulvoc: | H |
| Srcvulsoc: | X | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 4258681010 |
| Priconta 1: | ATTN TUMWATER MINI DISTRICT | Priconta 2: | 22909 NE REDMOND FALL CITY RD |
| Priconta 3: | REDMOND | Priconta 4: | WA |
| Priconta 5: | 98053 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 11/06/1998 | Srceffecti: | 11/06/1998 |
| Internalon: | N | Site id: | WA7000000006007 |

D16
West
1/4 - 1/2 Mile
Lower

FED USGS USGS40001237081

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465712122564801 | | |
| Monloc name: | 17N/02W-16N01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9531531 |
| Longitude: | -122.9479172 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580901 | Welldepth: | 21 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-09-01 | 16 | |

**C17
East
1/4 - 1/2 Mile
Higher**

FED USGS USGS40001237189

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465717122555501 | | |
| Monloc name: | 17N/02W-16R01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9534308 |
| Longitude: | -122.9331943 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | 34 |
| Construction date: | 19520701 | Wellholedepth: | Not Reported |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1952-07-01 | 9 | |

18
ESE
1/4 - 1/2 Mile
Higher

WA WELLS WA700000005959

| | | | |
|-------------|-------------------------|-------------|---------------------|
| Objectid: | 3433 | Pwsid: | 05547 |
| Srcnum: | 01 | Pwsrcid: | 0554701 |
| Systemname: | LINCOLN CREEK LUMBER CO | | |
| Systemgrou: | A | | |
| Systemtype: | TNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 2 | Srcname: | WELL #1 NO WELL TAG |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 140 | Township: | 17 |
| Range: | 02W | Section: | 20 |
| Qtrqtrsect: | NE | | |
| Longitude: | -122.934014 | | |
| Latitude: | 46.950224 | | |
| Latlongmet: | GPS | Srcsuscept: | H |
| Srcvulnioc: | M | Srcvulnvoc: | H |
| Srcvulnsoc: | U | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3609569147 |
| Priconta 1: | Not Reported | Priconta 2: | 2421 93RD AVE SW |
| Priconta 3: | TUMWATER | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 11/27/1996 | Srceffecti: | 11/27/1996 |
| Internalon: | N | Site id: | WA700000005959 |

F19
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40001237382

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465729122562601 | | |
| Monloc name: | 17N/02W-16F02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9578752 |
| Longitude: | -122.941806 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19920224 | Welldepth: | 59 |
| Welldepth units: | ft | Wellholedepth: | 59 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1992-02-24 | 11 | |

F20
North
1/4 - 1/2 Mile
Higher

FED USGS USGS40001237383

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465729122562701 | | |
| Monloc name: | 17N/02W-16F01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9578752 |
| Longitude: | -122.9420837 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19940408 | Welldepth: | 46.58 |
| Welldepth units: | ft | Wellholedepth: | 50.58 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1994-04-08 | 15 | |

E21
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40001237240

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465721122564501 | | |
| Monloc name: | 17N/02W-16M04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.955653 |
| Longitude: | -122.9470839 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19931213 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-12-13 | 15 | |

E22
WNW
1/4 - 1/2 Mile
Lower

FED USGS USGS40001237241

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465721122564601 | | |
| Monloc name: | 17N/02W-16M03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.955653 |
| Longitude: | -122.9473617 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 40 |
| Construction date: | 19931206 | Wellholedepth: | 40 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-12-07 | 16 | |

23
NW
1/4 - 1/2 Mile
Lower

FED USGS USGS40001237277

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465724122565101 | | |
| Monloc name: | 17N/02W-16M02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9564863 |
| Longitude: | -122.9487506 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 191 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19880205 | Welldepth: | 38 |
| Welldepth units: | ft | Wellholedepth: | 39 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1988-02-05 | 15 | |

G24
East
1/4 - 1/2 Mile
Higher

WA WELLS WA7000000005981

| | | | |
|-------------|-------------|-------------|--------------|
| Objectid: | 2832 | Pwsid: | 04564 |
| Srnum: | 01 | Pwssrcid: | 0456401 |
| Systemname: | ADAIR HOMES | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 3 | Resconnect: | 1 |
| Totalconne: | 1 | Srcname: | WELL 01 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------|-------------|------------------|
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 63 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | Not Reported | | |
| Longitude: | -122.930681 | | |
| Latitude: | 46.952103 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulnsoc: | Not Reported | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3603528571 |
| Priconta 1: | Not Reported | Priconta 2: | 2303 93RD AVE SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98502 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 01/01/1981 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005981 |

G25
East
1/4 - 1/2 Mile
Higher

FED USGS USGS40001237033

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465708122554501 | | |
| Monloc name: | 17N/02W-21A01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.952042 |
| Longitude: | -122.9304163 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 196 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19780505 | Welldepth: | 63 |
| Welldepth units: | ft | Wellholedepth: | 63 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-24 | 11.35 | | 1988-09-08 | 15.59 | |

G26
East
1/4 - 1/2 Mile
Higher

WA WELLS WA7000000005982

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|----------------|-------------|------------------|
| Objectid: | 504 | Pwsid: | 00881 |
| Srcnum: | 01 | Pwssrcid: | 0088101 |
| Systemname: | JOHNSON, LARRY | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 3 | Resconnect: | 1 |
| Totalconne: | 1 | Srcname: | WELL 01 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 67 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | Not Reported | | |
| Longitude: | -122.93012 | | |
| Latitude: | 46.952148 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulsoc: | Not Reported | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 0000000000 |
| Priconta 1: | Not Reported | Priconta 2: | 2303 93RD AVE SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98502 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 05/01/1980 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005982 |

H27
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237082

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465712122570201 | | |
| Monloc name: | 17N/02W-17R02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9531531 |
| Longitude: | -122.9518062 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19801021 | Welldepth: | 54 |
| Welldepth units: | ft | Wellholedepth: | 55 |
| Wellholedepth units: | ft | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1990-07-24 | 16.05 | | 1988-08-02 | 18.14 | |

H28
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237109

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465714122570201 | | |
| Monloc name: | 17N/02W-17R05 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9537086 |
| Longitude: | -122.9518062 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19770210 | Welldepth: | 60 |
| Welldepth units: | ft | Wellholedepth: | 60 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| 1977-02-14 | 20 | |

29
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236831

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465656122565701 | | |
| Monloc name: | 17N/02W-20H02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9487087 |
| Longitude: | -122.950417 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 191 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19870605 | Welldepth: | 64 |
| Welldepth units: | ft | Wellholedepth: | 74 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-25 | 10.61 | | 1988-09-20 | 13.95 | |

**30
NW
1/2 - 1 Mile
Lower**

FED USGS USGS40001237320

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465727122565501 | | |
| Monloc name: | 17N/02W-16M01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9573196 |
| Longitude: | -122.9498618 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19600101 | Welldepth: | 18 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

**I31
West
1/2 - 1 Mile
Lower**

FED USGS USGS40001237157

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465716122570401 | | |
| Monloc name: | 17N/02W-17R07 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9542642 |
| Longitude: | -122.9523618 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19850819 | Welldepth: | 94.17 |
| Welldepth units: | ft | Wellholedepth: | 110 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1985-08-23 | 49 | |

**J32
SW
1/2 - 1 Mile
Lower**

WA WELLS WA7000000005937

| | | | |
|-------------|--------------|-------------|---------------------|
| Objectid: | 3483 | Pwsid: | 05618 |
| Srcnum: | 01 | Pwssrcid: | 0561801 |
| Systemname: | DAIRY FRESH | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 1 | Srcname: | WELL #1 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 1 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | SWNW | | |
| Longitude: | -122.949908 | | |
| Latitude: | 46.947513 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulnsoc: | Not Reported | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3603579411 |
| Priconta 1: | Not Reported | Priconta 2: | 9636 BLOMBERG ST SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 12/16/1996 | Srceffecti: | 12/16/1996 |
| Internalon: | N | Site id: | WA7000000005937 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K33
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40001237471

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465736122564501 | | |
| Monloc name: | 17N/02W-16D02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9598196 |
| Longitude: | -122.947084 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930929 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| | Feet below | Feet to |
|------------|------------|----------|
| Date | Surface | Sealevel |
| ----- | | |
| 1993-09-29 | 12 | |

I34
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237158

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465716122570501 | | |
| Monloc name: | 17N/02W-17R06 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9542642 |
| Longitude: | -122.9526396 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 35 |
| Construction date: | 19811005 | Wellholedepth: | 35 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1981-10-08 | 10 | |

K35
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40001237472

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465736122564601 | | |
| Monloc name: | 17N/02W-16D01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9598196 |
| Longitude: | -122.9473618 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930817 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-08-17 | 12 | |

36
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236965

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122570501 | | |
| Monloc name: | 17N/02W-20A01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9526395 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19770818 | Welldepth: | 55 |
| Welldepth units: | ft | Wellholedepth: | 56 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1977-08-20 | 20 | |

**37
ENE
1/2 - 1 Mile
Higher**

WA WELLS WA7000000006009

| | | | |
|--------------|-----------------|--------------|----------------------------|
| Objectid: | 1564 | Pwsid: | 02513 |
| Srccnum: | 01 | Pwssrcid: | 0251301 |
| Systemname: | MULFORD ESTATES | | |
| Systemgrou: | A | | |
| Systemtype: | Comm | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 54 | Resconnect: | 20 |
| Totalconne: | 20 | Srccname: | WELL #1 AEJ175 MULFORD EST |
| Srctype: | W | Srccusecode: | P |
| Srccwelldep: | 98 | Township: | 17 |
| Range: | 02W | Section: | 15 |
| Qtrqtrsect: | SWSW | | |
| Longitude: | -122.92853 | | |
| Latitude: | 46.95516 | | |
| Latlongmet: | MAP | Srccsuscept: | L |
| Srccvulnioc: | M | Srccvulnvoc: | L |
| Srccvulnsoc: | L | Doewelltag: | AEJ175 |
| Srccot6mo: | 310 | Srccot1yr: | 440 |
| Srccot5yr: | 980 | Srccot10yr: | 1390 |
| Protection: | CFR | Prcccontact: | 3607913323 |
| Prcconta 1: | Not Reported | Prcconta 2: | 2030 91ST AVE SW |
| Prcconta 3: | OLYMPIA | Prcconta 4: | WA |
| Prcconta 5: | 98512 | | |
| Prcconta 6: | Not Reported | | |
| Pwseffecti: | 06/29/1993 | Srcceffecti: | 06/29/1993 |
| Internalon: | N | Site id: | WA7000000006009 |

**J38
SW
1/2 - 1 Mile
Lower**

FED USGS USGS40001236781

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465651122565801 | | |
| Monloc name: | 17N/02W-20H01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9473199 |
| Longitude: | -122.9506948 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19560101 | Welldepth: | 70 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

39
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237092

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465713122570801 | | |
| Monloc name: | 17N/02W-17R01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9534308 |
| Longitude: | -122.953473 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580918 | Welldepth: | 33 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-09-18 | 18 | |

L40
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237051

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465709122553501 | | |
| Monloc name: | 17N/02W-22D01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9523197 |
| Longitude: | -122.9276385 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 5 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 205 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19760410 | Welldepth: | 64 |
| Welldepth units: | ft | Wellholedepth: | 65 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1976-04-10 | 7 | |

L41
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237007

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465706122553501 | | |
| Monloc name: | 17N/02W-22D02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9514864 |
| Longitude: | -122.9276384 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19860627 | Welldepth: | 86 |
| Welldepth units: | ft | Wellholedepth: | 86 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-24 | 11.28 | | 1988-10-07 | 15.78 | |

**M42
WNW
1/2 - 1 Mile
Lower**

FED USGS USGS40001237265

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465723122570501 | | |
| Monloc name: | 17N/02W-17R04 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9562086 |
| Longitude: | -122.9526397 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 192 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19730320 | Welldepth: | 93 |
| Welldepth units: | ft | Wellholedepth: | 122 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|-------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-25 | 10.08 | | | | |
| 1988-07-18 | 11.86 | | | | |

Note: A nearby site that taps the same aquifer was being pumped.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

K43
NNW
1/2 - 1 Mile
Lower

FED USGS USGS40001237510

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465739122564501 | | |
| Monloc name: | 17N/02W-16D03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9606529 |
| Longitude: | -122.947084 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19931012 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-10-12 | 13 | |

L44
East
1/2 - 1 Mile
Higher

WA WELLS WA700000005970

| | | | |
|-------------|--------------|-------------|--------------|
| Objectid: | 1838 | Pwsid: | 02917 |
| Srcnum: | 01 | Pwssrcid: | 0291701 |
| Systemname: | TAYLOR | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 2 | Srcname: | WELL #1 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 86 | Township: | 17 |
| Range: | 02W | Section: | 22 |
| Qtrqrsect: | Not Reported | | |
| Longitude: | -122.927301 | | |
| Latitude: | 46.951453 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulnsoc: | Not Reported | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------|-------------|-----------------|
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3605320530 |
| Priconta 1: | Not Reported | Priconta 2: | 9404 SW KIMMIE |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 12/01/1993 | Srceffecti: | 12/01/1993 |
| Internalon: | N | Site id: | WA7000000005970 |

N45
NE
1/2 - 1 Mile
Higher

FED USGS USGS40001237470

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465736122554901 | | |
| Monloc name: | 17N/02W-16A01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9598196 |
| Longitude: | -122.9315278 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930624 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|--------------------|------------------|
| ----- | | |
| 1993-06-25 | 14 | |

N46
NE
1/2 - 1 Mile
Higher

FED USGS USGS40001237469

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465736122554801 | | |
| Monloc name: | 17N/02W-16A02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9598196 |
| Longitude: | -122.93125 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | Vert measure val: | 9999.99 |
| Horiz coord refsys: | NAD83 | Vertacc measure val: | 999 |
| Vert measure units: | feet | Countrycode: | US |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | | |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930512 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | 40 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-05-12 | 10 | |

**M47
WNW
1/2 - 1 Mile
Lower**

FED USGS USGS40001237266

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465723122570901 | | |
| Monloc name: | 17N/02W-17R03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9562086 |
| Longitude: | -122.9537509 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 192 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19800602 | Welldepth: | 119 |
| Welldepth units: | ft | Wellholedepth: | 257 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | | | |
| 1990-07-25 | 9.03 | | 1988-07-18 | 10.74 | |

**O48
SW
1/2 - 1 Mile
Lower**

WA WELLS WA700000005917

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Objectid: | 2295 | Pwsid: | 03619 |
| Srcnum: | 01 | Pwssrcid: | 0361901 |
| Systemname: | LOS CEDROS MOBILE HOME PARK | | |
| Systemgrou: | A | | |
| Systemtype: | Comm | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopol: | 98 | Resconnect: | 40 |
| Totalconne: | 40 | Srcname: | OLD WELL #1 AEJ169 |
| Srctype: | W | Srcusecode: | S |
| Srcwelldep: | 30 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | NWSW | | |
| Longitude: | -122.949281 | | |
| Latitude: | 46.944987 | | |
| Latlongmet: | GPS | Srcsuscept: | H |
| Srcvulnioc: | M | Srcvulnvoc: | M |
| Srcvulnsoc: | M | Doewelltag: | AEJ169 |
| Srctot6mo: | 220 | Srctot1yr: | 310 |
| Srctot5yr: | 700 | Srctot10yr: | 980 |
| Protection: | CFR | Pricontact: | 3604380785 |
| Priconta 1: | Not Reported | Priconta 2: | PO BOX 8637 |
| Priconta 3: | LACEY | Priconta 4: | WA |
| Priconta 5: | 985098637 | | |
| Priconta 6: | tajanzen@comcast.net | | |
| Pwseffecti: | 09/01/1980 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005917 |

O49
SW
1/2 - 1 Mile
Lower

WA WELLS WA7000000005916

| | | | |
|-------------|-----------------------------|-------------|--------------------|
| Objectid: | 2296 | Pwsid: | 03619 |
| Srcnum: | 02 | Pwssrcid: | 0361902 |
| Systemname: | LOS CEDROS MOBILE HOME PARK | | |
| Systemgrou: | A | | |
| Systemtype: | Comm | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopol: | 98 | Resconnect: | 40 |
| Totalconne: | 40 | Srcname: | NEW WELL #2 AEJ168 |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 100 | Township: | 17 |
| Range: | 02W | Section: | 21 |
| Qtrqtrsect: | NWSW | | |
| Longitude: | -122.949379 | | |
| Latitude: | 46.944983 | | |
| Latlongmet: | GPS | Srcsuscept: | L |
| Srcvulnioc: | M | Srcvulnvoc: | L |
| Srcvulnsoc: | L | Doewelltag: | AEJ168 |
| Srctot6mo: | 220 | Srctot1yr: | 310 |
| Srctot5yr: | 700 | Srctot10yr: | 980 |
| Protection: | CFR | Pricontact: | 3604380785 |
| Priconta 1: | Not Reported | Priconta 2: | PO BOX 8637 |
| Priconta 3: | LACEY | Priconta 4: | WA |
| Priconta 5: | 985098637 | | |
| Priconta 6: | tajanzen@comcast.net | | |
| Pwseffecti: | 09/01/1980 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005916 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

50
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237069

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465711122553001 | | |
| Monloc name: | 17N/02W-15N01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9528753 |
| Longitude: | -122.9262495 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 205 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580922 | Welldepth: | 68 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| | Feet below | Feet to |
|------------|------------|----------|
| Date | Surface | Sealevel |
| ----- | | |
| 1958-09-22 | 20 | |

51
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236782

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465651122570501 | | |
| Monloc name: | 17N/02W-20H03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9473199 |
| Longitude: | -122.9526394 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 73 |
| Construction date: | 19870414 | Wellholedepth: | 74 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1987-04-29 | 13 | |

52
WNW
1/2 - 1 Mile
Lower

FED USGS USGS40001237414

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465730122570501 | | |
| Monloc name: | 17N/02W-17J02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.958153 |
| Longitude: | -122.9526398 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19810101 | Welldepth: | 38.33 |
| Welldepth units: | ft | Wellholedepth: | 40.33 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1981-01-01 | 14 | |

P53
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237215

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465719122553101 | | |
| Monloc name: | 17N/02W-15N02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9550975 |
| Longitude: | -122.9265274 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|--------------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 205 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580919 | Welldepth: | 13 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-09-19 | 10 | |

P54
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237156

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465716122553001 | | |
| Monloc name: | 17N/02W-15N03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9542641 |
| Longitude: | -122.9262496 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19920127 | Welldepth: | 98.5 |
| Welldepth units: | ft | Wellholedepth: | 102 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1992-02-14 | 18 | |

Q55
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40001236963

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122553001 | | |
| Monloc name: | 17N/02W-22D03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9262494 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19860602 | Welldepth: | 79.5 |
| Welldepth units: | ft | Wellholedepth: | 84.5 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1986-06-10 | 10 | |

**R56
ESE
1/2 - 1 Mile
Higher**

FED USGS USGS40001236822

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465655122553301 | | |
| Monloc name: | 17N/02W-22E03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9484309 |
| Longitude: | -122.9270827 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|-----|
| Aquifer type: | Not Reported | Welldepth: | 87 |
| Construction date: | 19730720 | Wellholedepth: | 106 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1973-07-20 | 18 | |

Q57
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40001236962

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122552901 | | |
| Monloc name: | 17N/02W-22D04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9259717 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19881011 | Welldepth: | 100 |
| Welldepth units: | ft | Wellholedepth: | 100 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1988-10-11 | 20 | |

58
East
1/2 - 1 Mile
Higher

WA WELLS WA7000000005999

| | | | |
|-------------|--------------------|-------------|--------------|
| Objectid: | 1771 | Pwsid: | 02826 |
| Srnum: | 01 | Pwssrcid: | 0282601 |
| Systemname: | OLYMPIC STRUCTURES | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 2 | Srcname: | WELL #1 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------|-------------|------------------|
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 80 | Township: | 17 |
| Range: | 02W | Section: | 15 |
| Qtrqrsect: | SWSW | | |
| Longitude: | -122.925326 | | |
| Latitude: | 46.954006 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulnsoc: | Not Reported | Doewelltag: | Not Reported |
| Srctot6mo: | 220 | Srctot1yr: | 310 |
| Srctot5yr: | 700 | Srctot10yr: | 980 |
| Protection: | CFR | Pricontact: | 3609435433 |
| Priconta 1: | Not Reported | Priconta 2: | 1850 93RD AVE SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 11/04/1993 | Srceffecti: | 11/04/1993 |
| Internalon: | N | Site id: | WA7000000005999 |

**R59
ESE
1/2 - 1 Mile
Higher**

WA WELLS WA7000000005943

| | | | |
|-------------|-------------------------------|-------------|---------------------|
| Objectid: | 1204 | Pwsid: | 01981 |
| Srcnum: | 02 | Pwsrcid: | 0198102 |
| Systemname: | AMERICAN HERITAGE CAMPGROUNDS | | |
| Systemgrou: | A | | |
| Systemtype: | TNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 3 | Resconnect: | 2 |
| Totalconne: | 88 | Srcname: | WELL #2 NO WELL TAG |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 117 | Township: | 17 |
| Range: | 02E | Section: | 22 |
| Qtrqrsect: | SWNW | | |
| Longitude: | -122.926689 | | |
| Latitude: | 46.948095 | | |
| Latlongmet: | MAP | Srcsuscept: | H |
| Srcvulnioc: | H | Srcvulnvoc: | H |
| Srcvulnsoc: | U | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3609438778 |
| Priconta 1: | Not Reported | Priconta 2: | 9610 KIMMIE ST SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | pdheck@comcast.net | | |
| Pwseffecti: | 01/01/1970 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005943 |

**R60
ESE
1/2 - 1 Mile
Higher**

FED USGS USGS40001236806

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465653122553201 | | |
| Monloc name: | 17N/02W-22E02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9478754 |
| Longitude: | -122.9268049 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19730816 | Welldepth: | 117 |
| Welldepth units: | ft | Wellholedepth: | 117 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1973-08-16 | 14 | |

61
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237001

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465705122571401 | | |
| Monloc name: | 17N/02W-20B06 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9512087 |
| Longitude: | -122.955973 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 191 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 91 |
| Construction date: | 19730305 | Wellholedepth: | 91 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-25 | 14.61 | | 1988-09-20 | 17.48 | |

S62
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237052

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465709122571801 | | |
| Monloc name: | 17N/02W-20B03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9523197 |
| Longitude: | -122.9562508 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19600101 | Welldepth: | 18 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

T63
ENE
1/2 - 1 Mile
Higher

WA WELLS WA700000006035

| | | | |
|-------------|-------------|-------------|----------------|
| Objectid: | 2720 | Pwsid: | 04374 |
| Srcnum: | 01 | Pwssrcid: | 0437401 |
| Systemname: | APEC SUPPLY | | |
| Systemgrou: | B | | |
| Systemtype: | GRPB | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 3 | Srcname: | WELL #1 ABS243 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|--------------|-------------|-------------------|
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 60 | Township: | 17 |
| Range: | 02W | Section: | 15 |
| Qtrqrsect: | NWSW | | |
| Longitude: | -122.927365 | | |
| Latitude: | 46.958485 | | |
| Latlongmet: | GPS | Srcsuscept: | U |
| Srcvulnioc: | Not Reported | Srcvulnvoc: | Not Reported |
| Srcvulnsoc: | Not Reported | Doewelltag: | ABS243 |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3603577849 |
| Priconta 1: | Not Reported | Priconta 2: | 8904 KIMMIE RD SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | Not Reported | | |
| Pwseffecti: | 02/23/1995 | Srceffecti: | 02/23/1995 |
| Internalon: | N | Site id: | WA7000000006035 |

**64
SW
1/2 - 1 Mile
Lower**

FED USGS USGS40001236629

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465640122565801 | | |
| Monloc name: | 17N/02W-20J02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9442644 |
| Longitude: | -122.9506947 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19800104 | Welldepth: | 123 |
| Welldepth units: | ft | Wellholedepth: | 123 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------|-----------------------|---------------------|
|------|-----------------------|---------------------|

1980-01-04 8

**R65
ESE
1/2 - 1 Mile
Higher**

WA WELLS WA7000000005941

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------------|-------------|---------------------|
| Objectid: | 1203 | Pwsid: | 01981 |
| Srcnum: | 01 | Pwssrcid: | 0198101 |
| Systemname: | AMERICAN HERITAGE CAMPGROUNDS | | |
| Systemgrou: | A | | |
| Systemtype: | TNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 3 | Resconnect: | 2 |
| Totalconne: | 88 | Srcname: | WELL #1 NO WELL TAG |
| Srctype: | W | Srcusecode: | P |
| Srcwelldep: | 76 | Township: | 17 |
| Range: | 02E | Section: | 22 |
| Qtrqtrsect: | SWNW | | |
| Longitude: | -122.926185 | | |
| Latitude: | 46.948031 | | |
| Latlongmet: | GPS | Srcsuscept: | H |
| Srcvulnioc: | H | Srcvulnvoc: | H |
| Srcvulsoc: | U | Doewelltag: | Not Reported |
| Srctot6mo: | 0 | Srctot1yr: | 0 |
| Srctot5yr: | 0 | Srctot10yr: | 0 |
| Protection: | Assigned | Pricontact: | 3609438778 |
| Priconta 1: | Not Reported | Priconta 2: | 9610 KIMMIE ST SW |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 98512 | | |
| Priconta 6: | pdheck@comcast.net | | |
| Pwseffecti: | 01/01/1970 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005941 |

66
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40001236814

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465654122552801 | | |
| Monloc name: | 17N/02W-22E01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9481532 |
| Longitude: | -122.9256938 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19010101 | Welldepth: | 77.2 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| 1973-07-20 | 18 | |

67
NW
1/2 - 1 Mile
Lower

FED USGS USGS40001237473

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465736122570701 | | |
| Monloc name: | 17N/02W-17J01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9598196 |
| Longitude: | -122.9531954 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19800315 | Welldepth: | 136 |
| Welldepth units: | ft | Wellholedepth: | 136 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| 1990-07-25 | 11.59 | | 1988-07-18 | 13.82 | |

T68
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237413

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465730122553001 | | |
| Monloc name: | 17N/02W-15M02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.958153 |
| Longitude: | -122.9262497 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | |
|--|----------------------------------|
| Horiz Acc measure: 10 | Horiz Acc measure units: seconds |
| Horiz Collection method: Interpolated from map | |
| Horiz coord refsys: NAD83 | Vert measure val: 9999.99 |
| Vert measure units: feet | Vertacc measure val: 999 |
| Vert accmeasure units: feet | |
| Vertcollection method: Unknown | |
| Vert coord refsys: NGVD29 | Countrycode: US |
| Aquifername: Not Reported | |
| Formation type: Not Reported | |
| Aquifer type: Not Reported | |
| Construction date: 19940701 | Welldepth: 58 |
| Welldepth units: ft | Wellholedepth: 58 |
| Wellholedepth units: ft | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1994-07-01 | 22 | |

69
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40001236558

| | |
|--|------------------------------------|
| Org. Identifier: USGS-WA | |
| Formal name: USGS Washington Water Science Center | |
| Monloc Identifier: USGS-465636122555001 | |
| Monloc name: 17N/02W-21J01 | |
| Monloc type: Well | |
| Monloc desc: Not Reported | |
| Huc code: 17100103 | Drainagearea value: Not Reported |
| Drainagearea Units: Not Reported | Contrib drainagearea: Not Reported |
| Contrib drainagearea units: Not Reported | Latitude: 46.9431533 |
| Longitude: -122.931805 | Sourcemap scale: 24000 |
| Horiz Acc measure: 1 | Horiz Acc measure units: seconds |
| Horiz Collection method: Interpolated from map | |
| Horiz coord refsys: NAD83 | Vert measure val: 193 |
| Vert measure units: feet | Vertacc measure val: 10 |
| Vert accmeasure units: feet | |
| Vertcollection method: Interpolated from topographic map | |
| Vert coord refsys: NGVD29 | Countrycode: US |
| Aquifername: Not Reported | |
| Formation type: Not Reported | |
| Aquifer type: Not Reported | |
| Construction date: 19790607 | Welldepth: 26 |
| Welldepth units: ft | Wellholedepth: 26 |
| Wellholedepth units: ft | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | | | |
| 1990-07-24 | 6.96 | | 1988-09-21 | 8.65 | |

S70
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237034

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465708122572001 | | |
| Monloc name: | 17N/02W-20B02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9523197 |
| Longitude: | -122.9570842 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19560101 | Welldepth: | 60 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1956-09-15 | 14 | |

**U71
ENE
1/2 - 1 Mile
Higher**

FED USGS USGS40001237412

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465730122552901 | | |
| Monloc name: | 17N/02W-15M03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.958153 |
| Longitude: | -122.9259719 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 59 |
| Construction date: | 19920401 | Wellholedepth: | 59 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1992-04-01 | 12 | |

72
West
1/2 - 1 Mile
Lower

FED USGS USGS40001236966

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122572301 | | |
| Monloc name: | 17N/02W-20B09 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9576397 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19950303 | Welldepth: | 60 |
| Welldepth units: | ft | Wellholedepth: | 60 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1995-03-03 | 12 | |

73
SW
1/2 - 1 Mile
Lower

FED USGS USGS40001236541

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465635122565701 | | |
| Monloc name: | 17N/02W-20J03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9428755 |
| Longitude: | -122.9504169 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 188 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19860513 | Welldepth: | 60 |
| Welldepth units: | ft | Wellholedepth: | 60 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-24 | 5.88 | | 1988-08-12 | 7.48 | |

**V74
NW
1/2 - 1 Mile
Lower**

FED USGS USGS40001237600

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465742122570401 | | |
| Monloc name: | 17N/02W-17H04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9614862 |
| Longitude: | -122.952362 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19930112 | Welldepth: | 96 |
| Welldepth units: | ft | Wellholedepth: | 98 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-01-13 | 25 | |

**75
West
1/2 - 1 Mile
Lower**

FED USGS USGS40001237190

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465717122572401 | | |
| Monloc name: | 17N/02W-17Q01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9545419 |
| Longitude: | -122.9579176 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19910703 | Welldepth: | 64 |
| Welldepth units: | ft | Wellholedepth: | 64 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1991-07-05 | 6 | |

**W76
SW
1/2 - 1 Mile
Lower**

FED USGS USGS40001236614

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465638122570401 | | |
| Monloc name: | 17N/02W-20J04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9437088 |
| Longitude: | -122.9523614 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|------|
| Aquifer type: | Not Reported | Welldepth: | 30.5 |
| Construction date: | 19810414 | Wellholedepth: | 30.5 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1981-04-16 | 4 | |

V77
NW
1/2 - 1 Mile
Lower

FED USGS USGS40001237631

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465743122570401 | | |
| Monloc name: | 17N/02W-17H03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.961764 |
| Longitude: | -122.952362 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19940625 | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1994-06-26 | 30 | |

U78
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237450

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465733122552701 | | |
| Monloc name: | 17N/02W-15M01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9589863 |
| Longitude: | -122.9254164 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|--------------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 195 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580520 | Welldepth: | 40 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-05-20 | 18 | |

W79
SW
1/2 - 1 Mile
Lower

FED USGS USGS40001236615

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465638122570501 | | |
| Monloc name: | 17N/02W-20J01 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9437088 |
| Longitude: | -122.9526392 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19790317 | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1979-03-18 | 8 | |

V80
NW
1/2 - 1 Mile
Lower

FED USGS USGS40001237632

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465743122570501 | | |
| Monloc name: | 17N/02W-17H02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.961764 |
| Longitude: | -122.9526399 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19810320 | Welldepth: | 39.8 |
| Welldepth units: | ft | Wellholedepth: | 41.2 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1981-03-20 | 7 | |

81
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40001236841

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465657122552001 | | |
| Monloc name: | 17N/02W-22NW2 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9489865 |
| Longitude: | -122.9234715 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|----|
| Aquifer type: | Not Reported | Welldepth: | 38 |
| Construction date: | 19820901 | Wellholedepth: | 38 |
| Welldepth units: | ft | | |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1982-09-01 | 13 | |

82
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236843

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465657122572401 | | |
| Monloc name: | 17N/02W-20G03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9489865 |
| Longitude: | -122.9579174 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19770801 | Welldepth: | 52.5 |
| Welldepth units: | ft | Wellholedepth: | 52.5 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1977-08-02 | 14 | |

V83
NW
1/2 - 1 Mile
Lower

FED USGS USGS40001237643

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465744122570701 | | |
| Monloc name: | 17N/02W-17H01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9620418 |
| Longitude: | -122.9531955 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19850605 | Welldepth: | 39 |
| Welldepth units: | ft | Wellholedepth: | 39 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1988-09-08 | 13.56 | |

X84
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236800

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465652122572301 | | |
| Monloc name: | 17N/02W-20G05 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9475976 |
| Longitude: | -122.9576396 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19870414 | Welldepth: | 90 |
| Welldepth units: | ft | Wellholedepth: | 90 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

Y85
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237009

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|---|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465706122573301 | | |
| Monloc name: | 17N/02W-20B08 | | |
| Monloc type: | Well | | |
| Monloc desc: | DRL LOC: NW NW S20 T17N R02W | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9516389 |
| Longitude: | -122.95925 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | .1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Global positioning system (GPS), uncorrected | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 192 |
| Vert measure units: | feet | Vertacc measure val: | 21 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from digital elevation model (DEM) | | |
| Vert coord refsys: | NAVD88 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 20081122 | Welldepth: | 78 |
| Welldepth units: | ft | Wellholedepth: | 82 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

X86
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236783

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465651122572301 | | |
| Monloc name: | 17N/02W-20G04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9473199 |
| Longitude: | -122.9576396 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19780322 | Welldepth: | 51.8 |
| Welldepth units: | ft | Wellholedepth: | 51.8 |
| Wellholedepth units: | ft | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1978-03-24 | 9 | |

87
SSE
1/2 - 1 Mile
Lower

FED USGS USGS40001236412

| | | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|--|
| Org. Identifier: | USGS-WA | | | |
| Formal name: | USGS Washington Water Science Center | | | |
| Monloc Identifier: | USGS-465625122560801 | | | |
| Monloc name: | 17N/02W-21Q01 | | | |
| Monloc type: | Well | | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported | |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported | |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9400978 | |
| Longitude: | -122.936805 | Sourcemap scale: | Not Reported | |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds | |
| Horiz Collection method: | Interpolated from map | | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 | |
| Vert measure units: | feet | Vertacc measure val: | 999 | |
| Vert accmeasure units: | feet | | | |
| Vertcollection method: | Unknown | | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US | |
| Aquifername: | Not Reported | | | |
| Formation type: | Unclassified Overburden | | | |
| Aquifer type: | Not Reported | | | |
| Construction date: | 19930705 | Welldepth: | 40 | |
| Welldepth units: | ft | Wellholedepth: | 40 | |
| Wellholedepth units: | ft | | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1993-08-05 | 6 | |

Y88
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237002

| | | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|--|
| Org. Identifier: | USGS-WA | | | |
| Formal name: | USGS Washington Water Science Center | | | |
| Monloc Identifier: | USGS-465705122572901 | | | |
| Monloc name: | 17N/02W-20B05 | | | |
| Monloc type: | Well | | | |
| Monloc desc: | Not Reported | | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported | |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported | |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9512087 | |
| Longitude: | -122.9593065 | Sourcemap scale: | 24000 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 188 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Unclassified Overburden | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19870605 | Welldepth: | 71 |
| Welldepth units: | ft | Wellholedepth: | 80 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|--|-----------------------|---------------------|-------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-26 | 9.27 | | | | |
| Note: Other conditions existed that would affect the measured water level. | | | | | |
| 1988-09-20 | 11.59 | | | | |

X89
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236801

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465652122572401 | | |
| Monloc name: | 17N/02W-20G06 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9475976 |
| Longitude: | -122.9579174 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19870414 | Welldepth: | 66 |
| Welldepth units: | ft | Wellholedepth: | 66 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1987-06-03 | 13 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

X90
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236751

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465650122572301 | | |
| Monloc name: | 17N/02W-20G02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9470421 |
| Longitude: | -122.9576396 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19010101 | Welldepth: | 39.7 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| | Feet below | Feet to | |
|------------|------------|----------|---|
| Date | Surface | Sealevel | |
| ----- | | | |
| 1975-04-24 | | | 8 |

X91
WSW
1/2 - 1 Mile
Lower

FED USGS USGS40001236807

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465653122571601 | | |
| Monloc name: | 17N/02W-20G01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9470421 |
| Longitude: | -122.9576396 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | 80 |
| Construction date: | 19600101 | Wellholedepth: | Not Reported |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1960-01-01 | 13 | |

Z92
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237091

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465713122550701 | | |
| Monloc name: | 17N/02W-15P01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9528753 |
| Longitude: | -122.9212493 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 205 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19520901 | Welldepth: | 82 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1952-09-01 | 17 | |

93
SE
1/2 - 1 Mile
Higher

FED USGS USGS40001236613

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465638122553001 | | |
| Monloc name: | 17N/02W-22M03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9437088 |
| Longitude: | -122.9262492 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19840424 | Welldepth: | 28 |
| Welldepth units: | ft | Wellholedepth: | 28 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1984-04-28 | 10 | |

94
NE
1/2 - 1 Mile
Higher

FED USGS USGS40001237630

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465743122553001 | | |
| Monloc name: | 17N/02W-15E02 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.961764 |
| Longitude: | -122.9262499 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19870801 | Welldepth: | 46.5 |
| Welldepth units: | ft | Wellholedepth: | 53 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1987-08-07 | 15 | |

Y95
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237053

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465709122573101 | | |
| Monloc name: | 17N/02W-20B01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.952042 |
| Longitude: | -122.9601399 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 190 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19440101 | Welldepth: | 16 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1944-06-28 | 12 | |

**Y96
West
1/2 - 1 Mile
Lower**

FED USGS USGS40001237017

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465707122573201 | | |
| Monloc name: | 17N/02W-20B07 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9517642 |
| Longitude: | -122.9601398 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 5 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 188 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | 80 |
| Construction date: | 19660101 | Wellholedepth: | Not Reported |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1966-07-01 | 11.00 | |

Y97
West
1/2 - 1 Mile
Lower

FED USGS USGS40001237018

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465707122573202 | | |
| Monloc name: | 17N/02W-20B04 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9517642 |
| Longitude: | -122.9601398 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 5 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 188 |
| Vert measure units: | feet | Vertacc measure val: | 50 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19660101 | Welldepth: | 80 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1966-08-01 | 11 | |

AA98
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237437

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465732122551801 | | |
| Monloc name: | 17N/02W-15L04 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9587085 |
| Longitude: | -122.9229163 | Sourcemap scale: | 24000 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------------------|--------------------------|---------|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19770123 | Welldepth: | 58 |
| Welldepth units: | ft | Wellholedepth: | 58 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|------------|-----------------------|---------------------|
| ----- | | | ----- | | |
| 1990-07-26 | 15.27 | | 1988-08-10 | 18.54 | |

AB99
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237000

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465705122551101 | | |
| Monloc name: | 17N/02W-22C02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9512087 |
| Longitude: | -122.9209715 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19740902 | Welldepth: | 106 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1974-09-02 | 35 | |

Y100
West
1/2 - 1 Mile
Lower

WA WELLS WA7000000005975

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-------------|-------------------------------|-------------|-----------------------------|
| Objectid: | 7843 | Pwsid: | 25980 |
| Srcnum: | 01 | Pwssrcid: | 2598001 |
| Systemname: | OLYMPIA FORESTRY SCIENCES LAB | | |
| Systemgrou: | A | | |
| Systemtype: | NTNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 1 | Srcname: | WELL #1 WW NO TAG |
| Srctype: | WW | Srcusecode: | P |
| Srcwelldep: | 80 | Township: | 17 |
| Range: | 02W | Section: | 20 |
| Qtrqtrsect: | NWNE | | |
| Longitude: | -122.960346 | | |
| Latitude: | 46.951722 | | |
| Latlongmet: | GPS | Srcsuscept: | M |
| Srcvulnioc: | L | Srcvulnvoc: | M |
| Srcvulnsoc: | L | Doewelltag: | Not Reported |
| Srctot6mo: | 440 | Srctot1yr: | 620 |
| Srctot5yr: | 1390 | Srctot10yr: | 1970 |
| Protection: | CFR | Pricontact: | 3609562317 |
| Priconta 1: | Not Reported | Priconta 2: | 1835 BLACK LK BLVD SW STE A |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 985125623 | | |
| Priconta 6: | rjwatson@fs.fed.us | | |
| Pwseffecti: | 01/01/1979 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005975 |

**Y101
West
1/2 - 1 Mile
Lower**

WA WELLS WA7000000005974

| | | | |
|-------------|-------------------------------|-------------|-----------------------------|
| Objectid: | 7844 | Pwsid: | 25980 |
| Srcnum: | 02 | Pwssrcid: | 2598002 |
| Systemname: | OLYMPIA FORESTRY SCIENCES LAB | | |
| Systemgrou: | A | | |
| Systemtype: | NTNC | Region: | SW |
| County: | THURSTON | Smaid: | Not Reported |
| Ftrespopul: | 0 | Resconnect: | 0 |
| Totalconne: | 1 | Srcname: | WELL #2 WW NO TAG |
| Srctype: | WW | Srcusecode: | P |
| Srcwelldep: | 80 | Township: | 17 |
| Range: | 02W | Section: | 20 |
| Qtrqtrsect: | NWNE | | |
| Longitude: | -122.960394 | | |
| Latitude: | 46.95172 | | |
| Latlongmet: | GPS | Srcsuscept: | L |
| Srcvulnioc: | L | Srcvulnvoc: | M |
| Srcvulnsoc: | L | Doewelltag: | Not Reported |
| Srctot6mo: | 440 | Srctot1yr: | 620 |
| Srctot5yr: | 1390 | Srctot10yr: | 1970 |
| Protection: | CFR | Pricontact: | 3609562317 |
| Priconta 1: | Not Reported | Priconta 2: | 1835 BLACK LK BLVD SW STE A |
| Priconta 3: | OLYMPIA | Priconta 4: | WA |
| Priconta 5: | 985125623 | | |
| Priconta 6: | rjwatson@fs.fed.us | | |
| Pwseffecti: | 01/01/1979 | Srceffecti: | 01/01/1970 |
| Internalon: | N | Site id: | WA7000000005974 |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

AB102
East
1/2 - 1 Mile
Higher

FED USGS USGS40001236961

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122551101 | | |
| Monloc name: | 17N/02W-22C03 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9209714 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19800410 | Welldepth: | 34 |
| Welldepth units: | ft | Wellholedepth: | 67 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1980-04-11 | 9 | |

AA103
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237449

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465733122551801 | | |
| Monloc name: | 17N/02W-15L03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9589863 |
| Longitude: | -122.9229163 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|-----------------------|--------------|-----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | Not Reported |
| Construction date: | 19580516 | Wellholeddepth: | Not Reported |
| Welldepth units: | Not Reported | | |
| Wellholeddepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-05-16 | 19 | |

104
SE
1/2 - 1 Mile
Higher

FED USGS USGS40001236628

| | | | |
|-----------------------------|---|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465640122552901 | | |
| Monloc name: | 17N/02W-22M04 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9443611 |
| Longitude: | -122.9247778 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | .1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Global positioning system (GPS), uncorrected | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 204 |
| Vert measure units: | feet | Vertacc measure val: | 21 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from digital elevation model (DEM) | | |
| Vert coord refsys: | NAVD88 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 20050629 | Welldepth: | 78 |
| Welldepth units: | ft | Wellholeddepth: | 78 |
| Wellholeddepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

AB105
East
1/2 - 1 Mile
Higher

FED USGS USGS40001236960

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465703122551001 | | |
| Monloc name: | 17N/02W-22C04 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9506531 |
| Longitude: | -122.9206937 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|---------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19871118 | Welldepth: | 84 |
| Welldepth units: | ft | Wellholedepth: | 86 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1987-12-03 | 20 | |

AC106
ESE
1/2 - 1 Mile
Higher

FED USGS

USGS40001236780

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465651122551401 | | |
| Monloc name: | 17N/02W-22F03 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9473199 |
| Longitude: | -122.9218047 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 198 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19840213 | Welldepth: | 66 |
| Welldepth units: | ft | Wellholedepth: | 66 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 2

| Date | Feet below Surface | Feet to Sealevel | Date | Feet below Surface | Feet to Sealevel |
|--|-----------------------|---------------------|------|-----------------------|---------------------|
| ----- | | | | | |
| 1990-07-25 | 12.95 | | | | |
| Note: The site had been pumped recently. | | | | | |
| 1988-08-26 | 13.34 | | | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

Z107
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237068

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465711122550801 | | |
| Monloc name: | 17N/02W-15P02 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9528753 |
| Longitude: | -122.9201382 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 205 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19580328 | Welldepth: | 28 |
| Welldepth units: | ft | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1958-03-28 | 10 | |

108
East
1/2 - 1 Mile
Higher

FED USGS USGS40001237016

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465707122550701 | | |
| Monloc name: | 17N/02W-22C01 | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9517642 |
| Longitude: | -122.9198603 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 200 |
| Vert measure units: | feet | Vertacc measure val: | 10 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|----------------------|--------------|----------------|--------------|
| Aquifer type: | Not Reported | Welldepth: | 60 |
| Construction date: | 19711231 | Wellholedepth: | Not Reported |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1971-12-31 | 16 | |

109
ENE
1/2 - 1 Mile
Higher

FED USGS USGS40001237411

| | | | |
|-----------------------------|--------------------------------------|--------------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465730122551201 | | |
| Monloc name: | 17N/02W-15L09 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.958153 |
| Longitude: | -122.9212495 | Sourcemap scale: | Not Reported |
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 9999.99 |
| Vert measure units: | feet | Vertacc measure val: | 999 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Unknown | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19940428 | Welldepth: | 59 |
| Welldepth units: | ft | Wellholedepth: | 59 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1994-04-28 | 14 | |

AC110
ESE
1/2 - 1 Mile
Higher

FED USGS USGS40001236799

| | | | |
|-----------------------------|--------------------------------------|-----------------------|--------------|
| Org. Identifier: | USGS-WA | | |
| Formal name: | USGS Washington Water Science Center | | |
| Monloc Identifier: | USGS-465652122551101 | | |
| Monloc name: | 17N/02W-22F06 | | |
| Monloc type: | Well | | |
| Monloc desc: | GWSI DATABASE AUGMENTATION SITE | | |
| Huc code: | 17100103 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 46.9475976 |
| Longitude: | -122.9209713 | Sourcemap scale: | Not Reported |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|--------------------------|-----------------------|--------------------------|--------------|
| Horiz Acc measure: | 10 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | Vert measure val: | 9999.99 |
| Horiz coord refsys: | NAD83 | Vertacc measure val: | 999 |
| Vert measure units: | feet | Countrycode: | US |
| Vert accmeasure units: | feet | Welldepth: | 56 |
| Vertcollection method: | Unknown | Wellholedepth: | Not Reported |
| Vert coord refsys: | NGVD29 | | |
| Aquifername: | Not Reported | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 19830920 | | |
| Welldepth units: | ft | | |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 1

| Date | Feet below Surface | Feet to Sealevel |
|------------|-----------------------|---------------------|
| ----- | | |
| 1983-09-26 | 29 | |

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for THURSTON County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for THURSTON COUNTY, WA

Number of sites tested: 38

| <u>Area</u> | <u>Average Activity</u> | <u>% <4 pCi/L</u> | <u>% 4-20 pCi/L</u> | <u>% >20 pCi/L</u> |
|-------------------------|-------------------------|----------------------|---------------------|-----------------------|
| Living Area - 1st Floor | 0.584 pCi/L | 97% | 3% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 2.171 pCi/L | 86% | 14% | 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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

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 Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Wells

Source: Department of Health

Telephone: 360-236-3148

Group A and B well locations.

Water Well Listing

Source: Public Utility District

Telephone: 206-779-7656

A listing of water well locations in Kitsap County.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing

Source: Department of Natural Resources

Telephone: 360-902-1450

Locations that represent oil and gas test well sites in Washington State from 1890 to present.

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Restover Truckstop

2729 93rd Avenue Southwest
Olympia, WA 98512

Inquiry Number: 3773458.5

November 07, 2013

The EDR Aerial Photo Decade Package



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800.352.0050
www.edrnet.com

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2013

Target Property:

2729 93rd Avenue Southwest

Olympia, WA 98512

| <u><i>Year</i></u> | <u><i>Scale</i></u> | <u><i>Details</i></u> | <u><i>Source</i></u> |
|--------------------|------------------------------------|---|----------------------|
| 1975 | Aerial Photograph. Scale: 1"=1000' | Panel #: 46122-H8, Maytown, WA;/Flight Date: September 13, 1975 | EDR |
| 1981 | Aerial Photograph. Scale: 1"=1000' | Panel #: 46122-H8, Maytown, WA;/Flight Date: August 08, 1981 | EDR |
| 1991 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/DOQQ - acquisition dates: July 30, 1991 | EDR |
| 1992 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/Flight Date: June 18, 1992 | EDR |
| 2005 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/Flight Year: 2005 | EDR |
| 2006 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/Flight Year: 2006 | EDR |
| 2009 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/Flight Year: 2009 | EDR |
| 2011 | Aerial Photograph. Scale: 1"=500' | Panel #: 46122-H8, Maytown, WA;/Flight Year: 2011 | EDR |



INQUIRY #: 3773458.5

YEAR: 1975

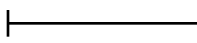
| = 1000'





INQUIRY #: 3773458.5

YEAR: 1981

 = 1000'





INQUIRY #: 3773458.5

YEAR: 1991

 = 500'





INQUIRY #: 3773458.5

YEAR: 1992

| = 500'





INQUIRY #: 3773458.5

YEAR: 2005

 = 500'





INQUIRY #: 3773458.5

YEAR: 2006

| = 500'





INQUIRY #: 3773458.5

YEAR: 2009

| = 500'





INQUIRY #: 3773458.5

YEAR: 2011

| = 500'





Restover Truckstop

2729 93rd Avenue Southwest
Olympia, WA 98512

Inquiry Number: 3773458.4

October 31, 2013

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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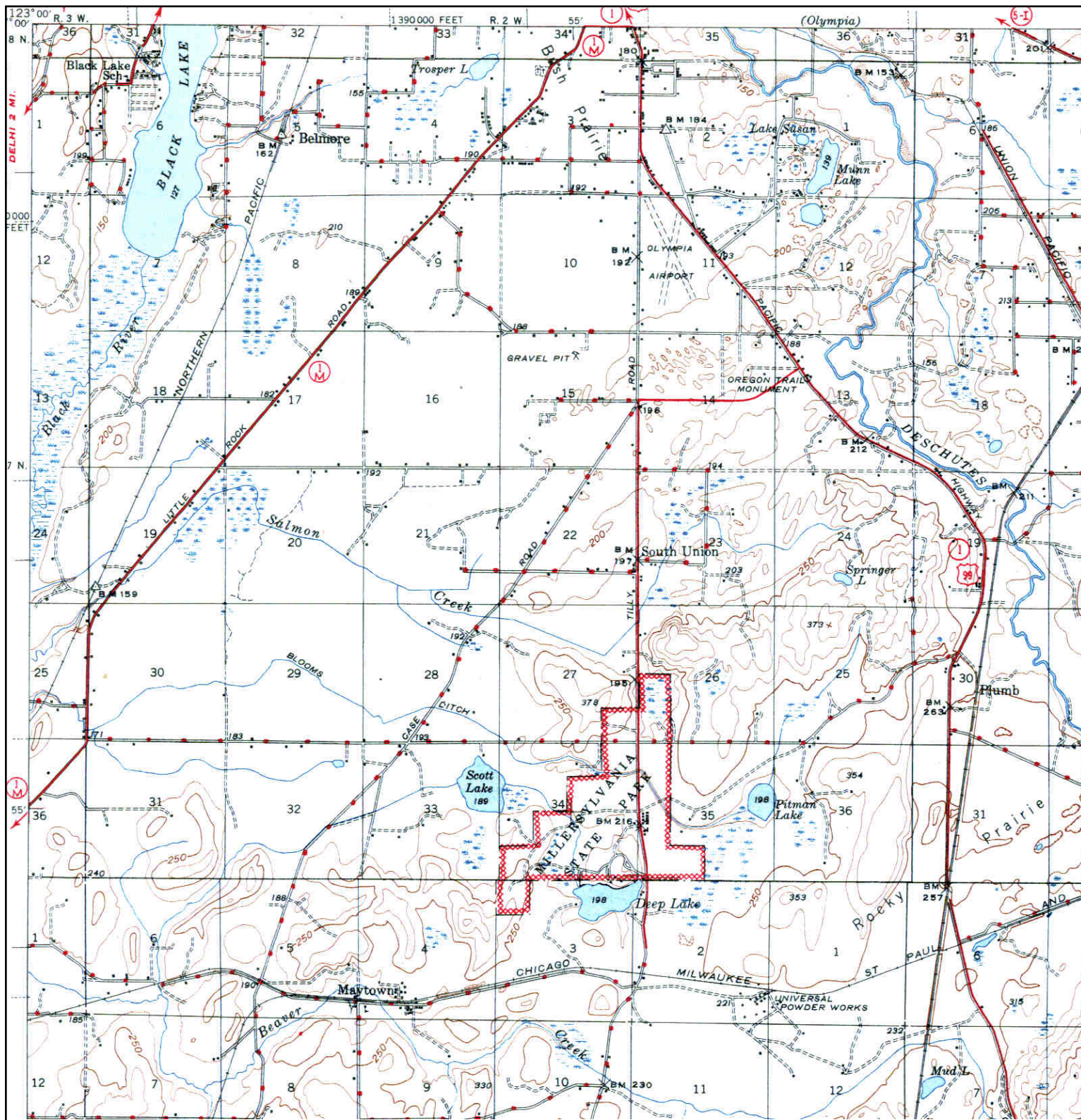
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Historical Topographic Map



| | | | | |
|--|------------------------|--|---------------------------------------|----------------------------------|
|  | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. | |
| | NAME: CHEHALIS | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson | |
| | MAP YEAR: 1916 | LAT/LONG: 46.9527 / -122.9406 | INQUIRY#: 3773458.4 | RESEARCH DATE: 10/31/2013 |
| | SERIES: 30 | | | |
| | SCALE: 1:125000 | | | |

Historical Topographic Map



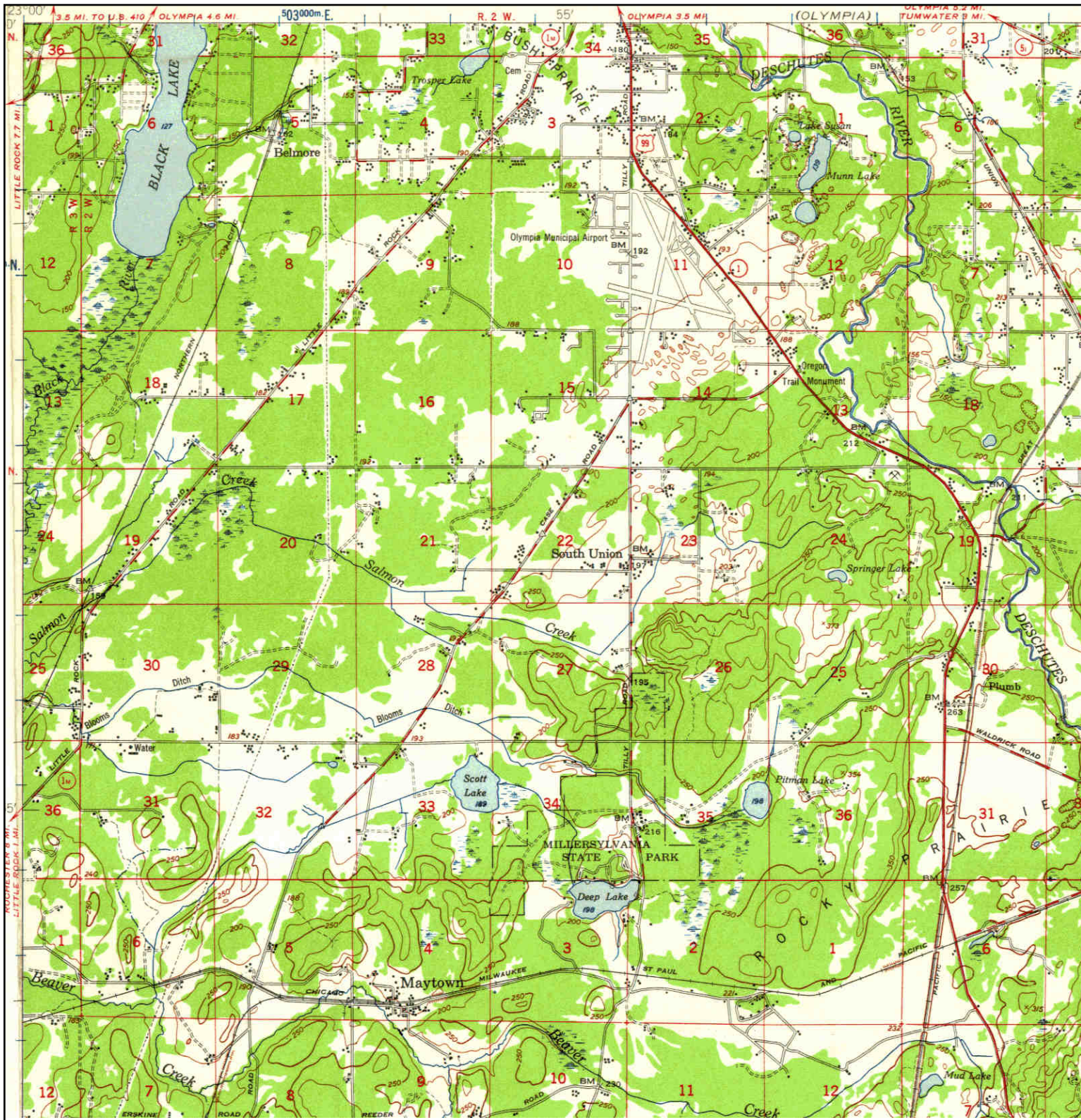
| | | | |
|---|-----------------------|--|---------------------------------------|
|  N | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: TENINO | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1944 | Olympia, WA 98512 | INQUIRY#: 3773458.4 |
| | SERIES: 15 | LAT/LONG: 46.9527 / -122.9406 | RESEARCH DATE: 10/31/2013 |
| | SCALE: 1:62500 | | |

Historical Topographic Map



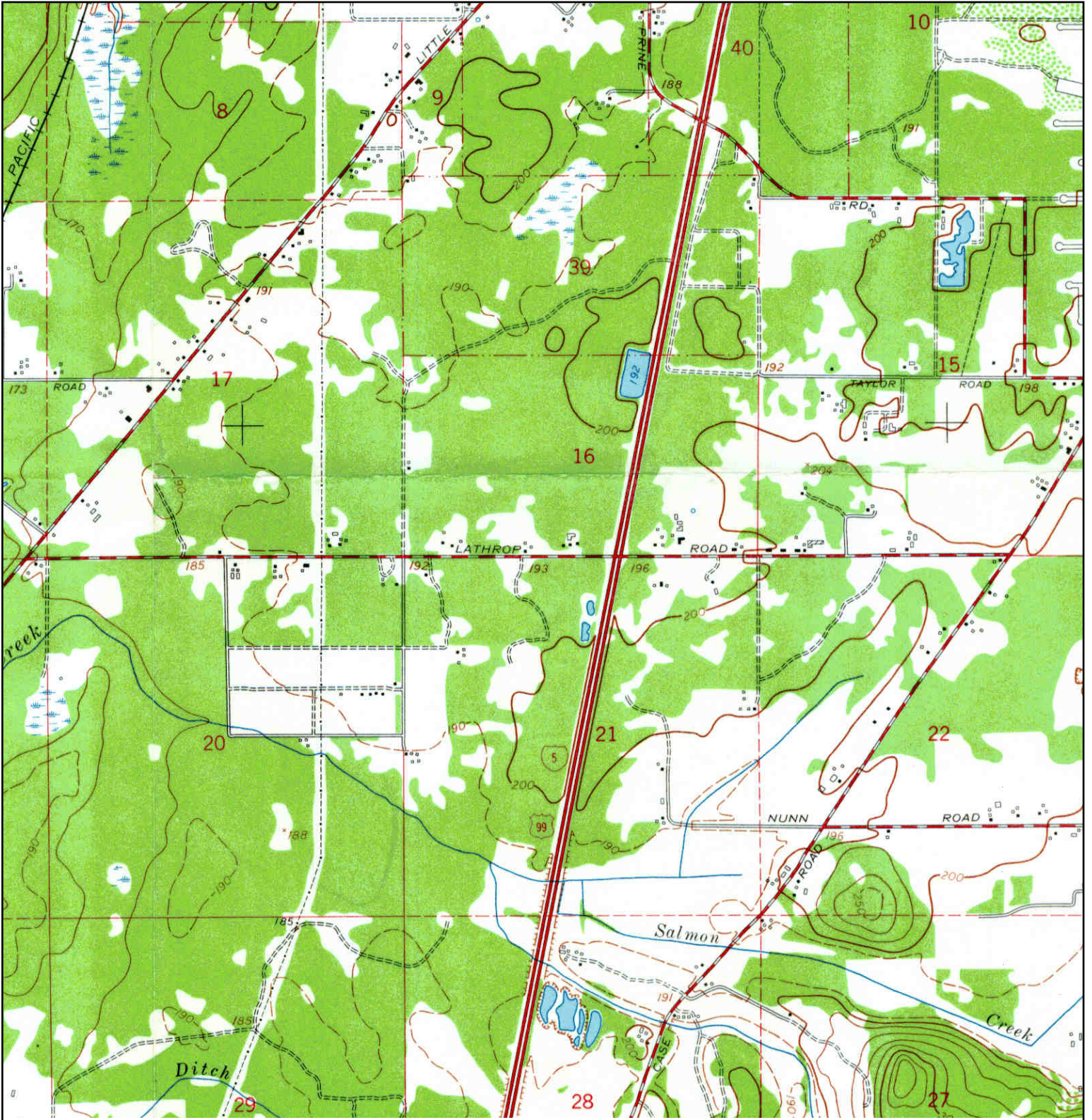
| | | | |
|--|-----------------------|---|---------------------------------------|
| | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: MAYTOWN | ADDRESS: 2729 93rd Avenue Southwest Olympia, WA 98512 | CONTACT: Tonya Johnson |
| | MAP YEAR: 1949 | LAT/LONG: 46.9527 / -122.9406 | INQUIRY#: 3773458.4 |
| | SERIES: 7.5 | | RESEARCH DATE: 10/31/2013 |
| | SCALE: 1:25000 | | |

Historical Topographic Map



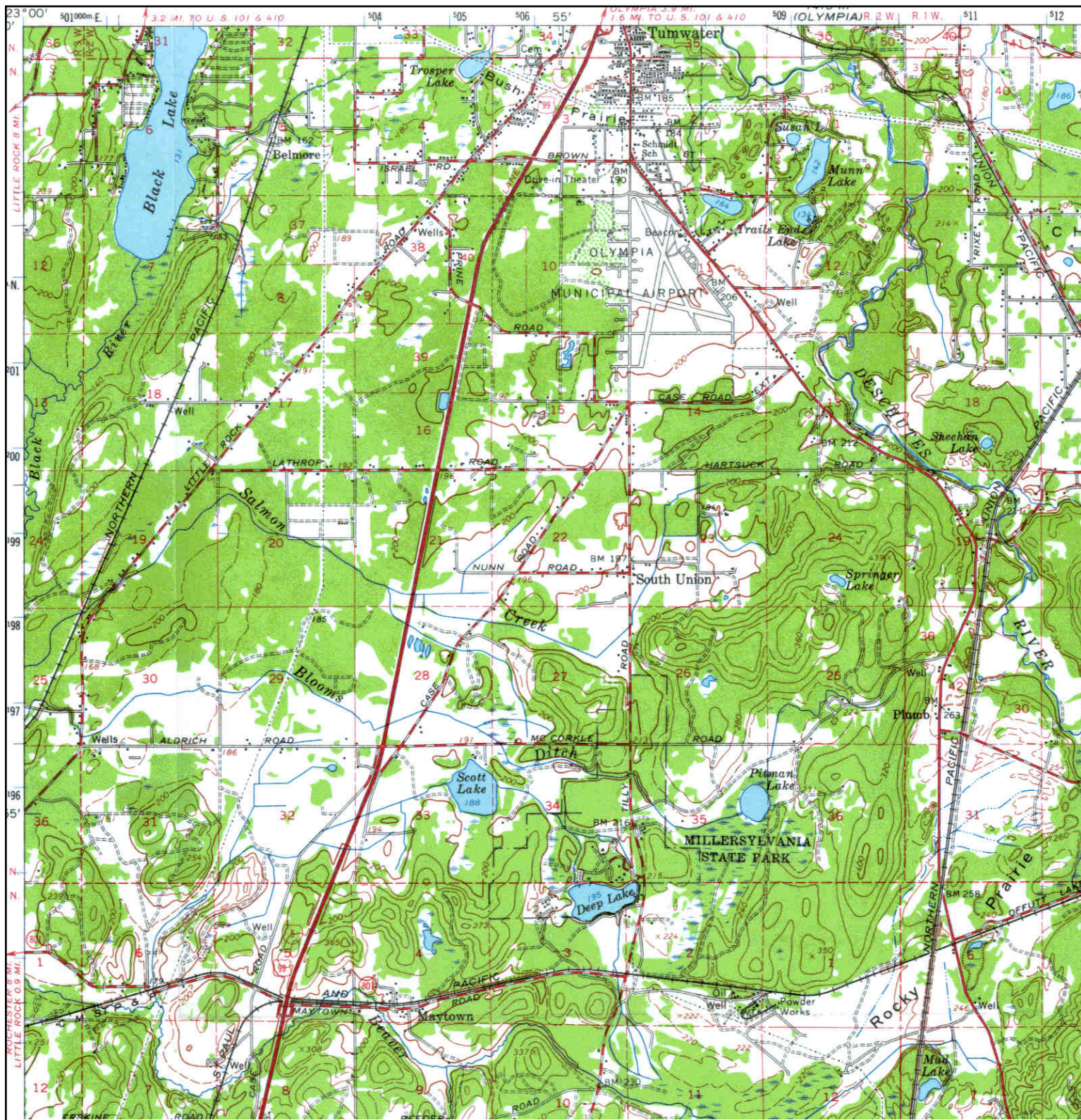
| | | | |
|--|--------------------|--------------------------------------|---------------------------------------|
|  | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: TENINO | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1949 | LAT/LONG: 46.9527 / -122.9406 | INQUIRY#: 3773458.4 |
| | SERIES: 15 | | RESEARCH DATE: 10/31/2013 |
| | SCALE: 1:62500 | | |

Historical Topographic Map



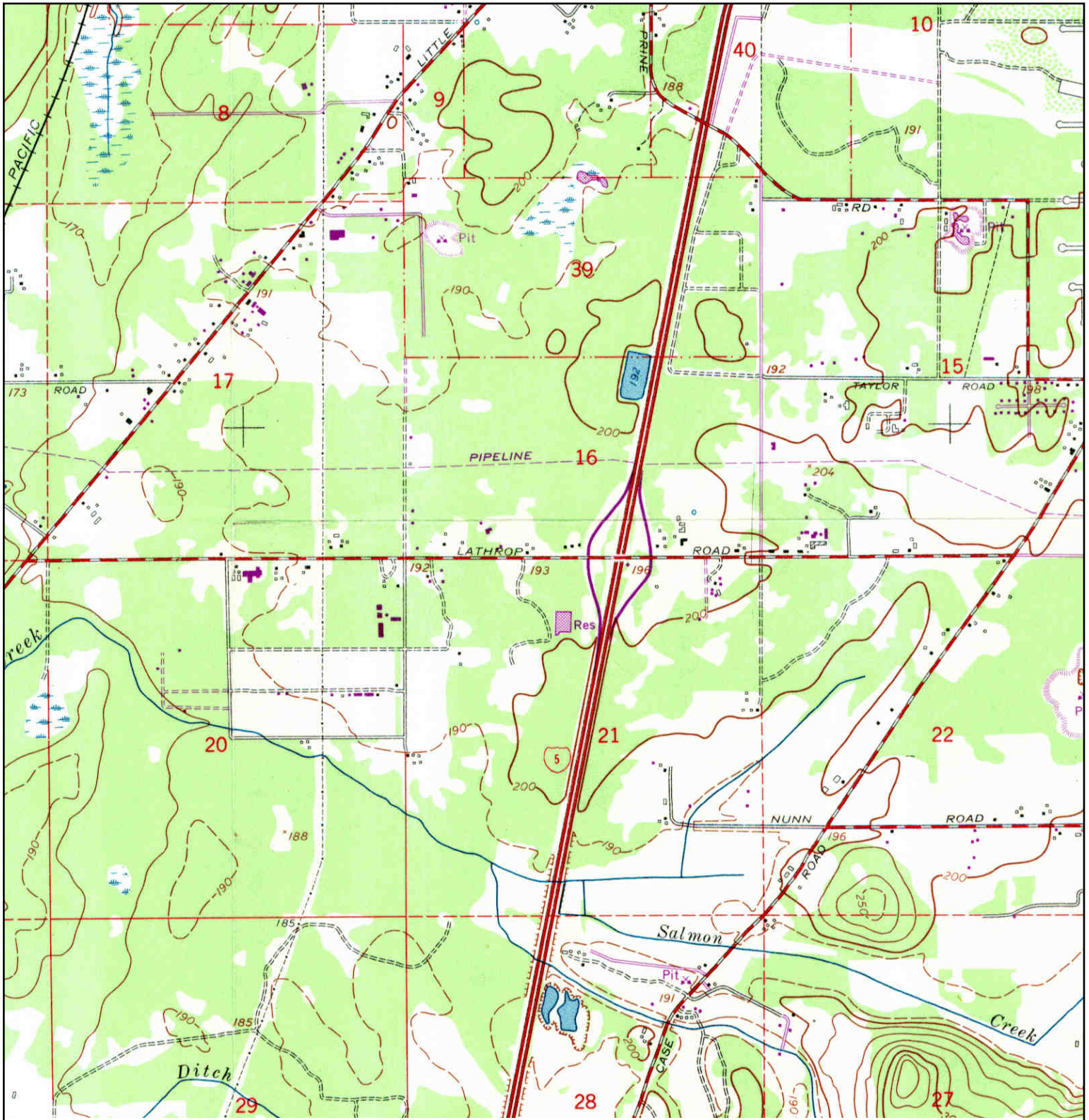
| | | | |
|--|-----------------------|--|---------------------------------------|
| | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: MAYTOWN | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1959 | LAT/LONG: 46.9527 / -122.9406 | INQUIRY#: 3773458.4 |
| | SERIES: 7.5 | | RESEARCH DATE: 10/31/2013 |
| | SCALE: 1:24000 | | |

Historical Topographic Map



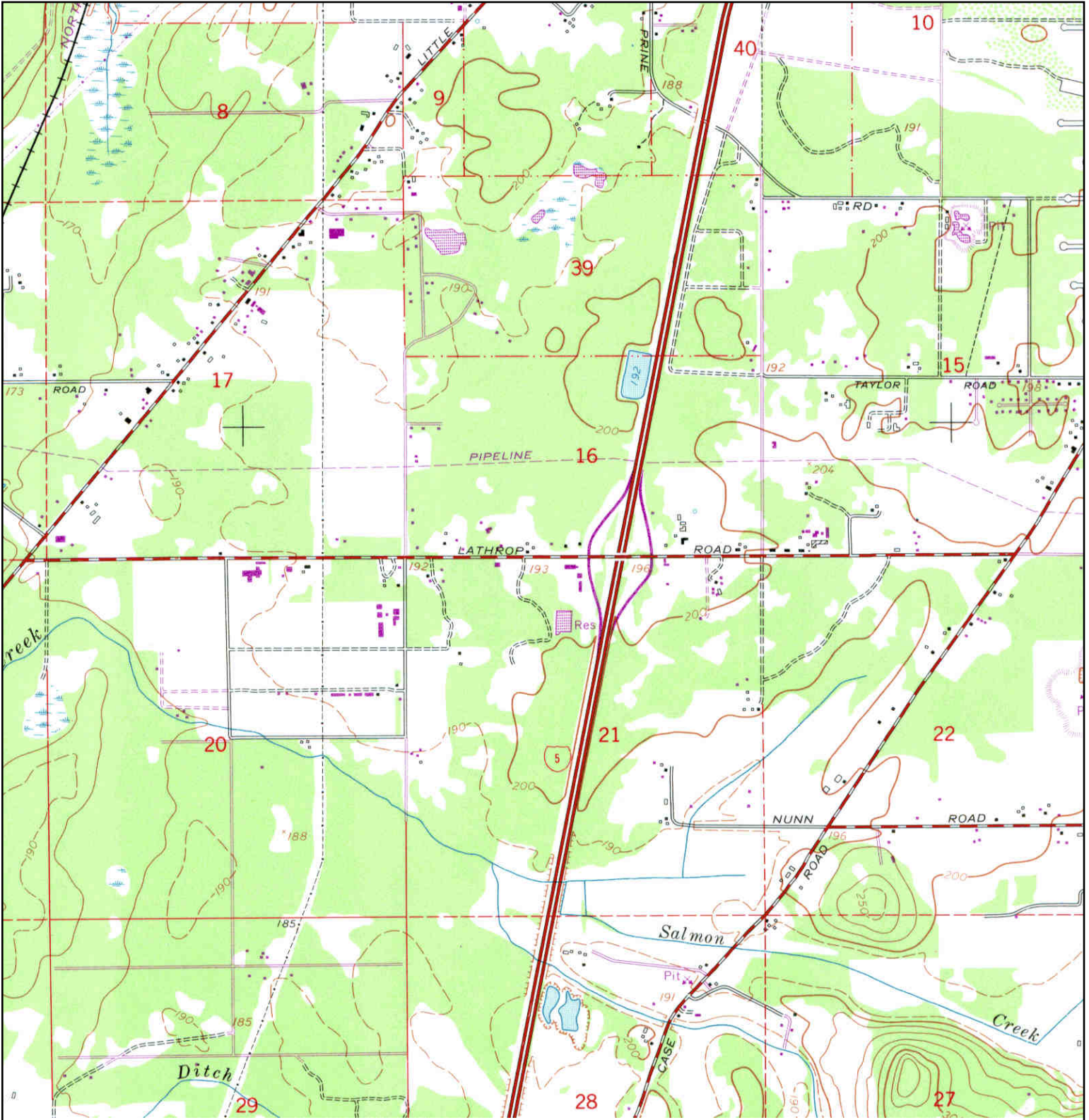
| | | | |
|--|-----------------------|--|---------------------------------------|
| | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: TENINO | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1959 | Olympia, WA 98512 | INQUIRY#: 3773458.4 |
| | SERIES: 15 | LAT/LONG: 46.9527 / -122.9406 | RESEARCH DATE: 10/31/2013 |
| | SCALE: 1:62500 | | |

Historical Topographic Map



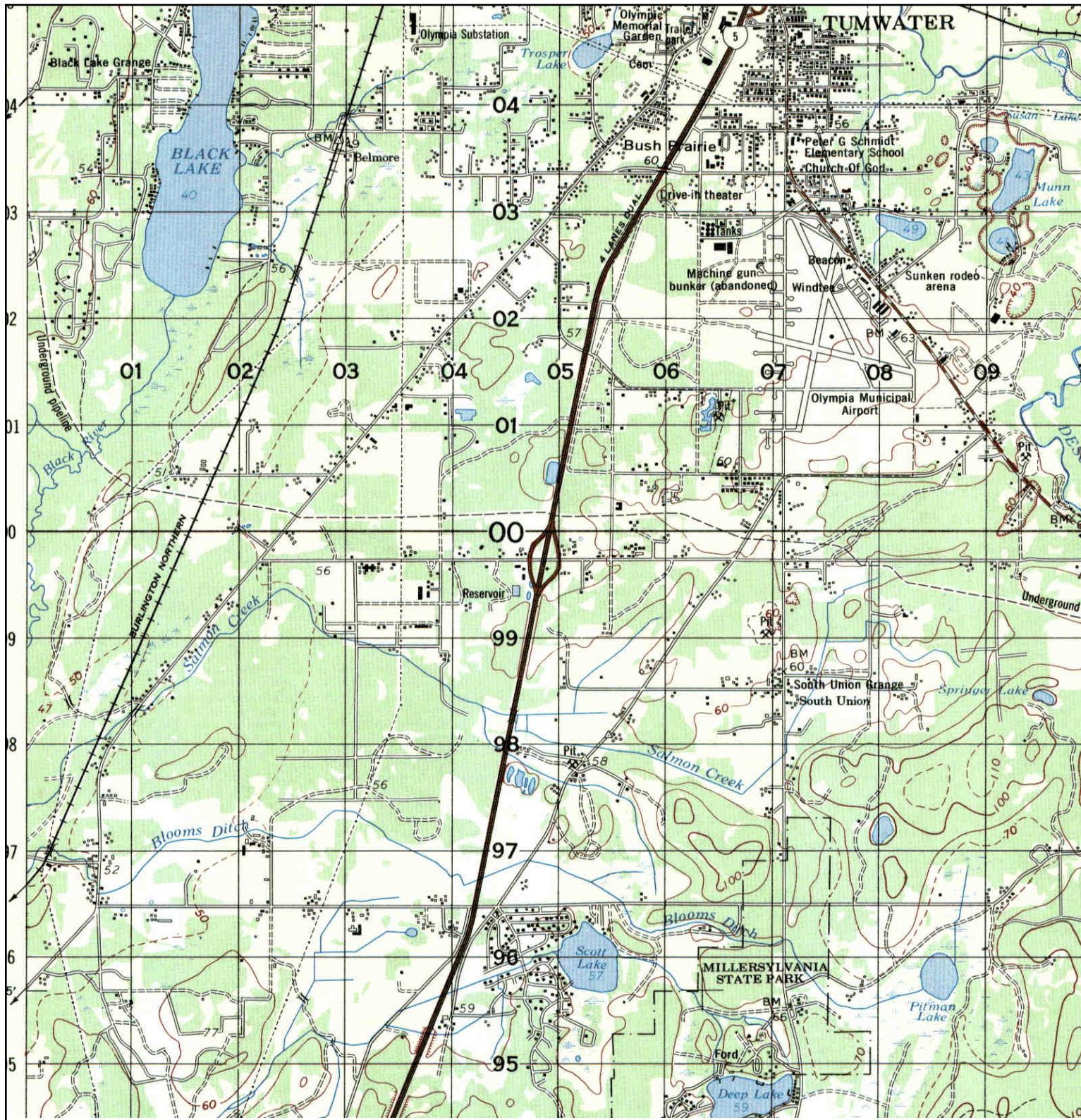
| | | | |
|----------------|-------------------------|--|---------------------------------------|
| <p>N ↑</p> | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: MAYTOWN | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1968 | Olympia, WA 98512 | INQUIRY#: 3773458.4 |
| | PHOTOREVISED FROM :1959 | LAT/LONG: 46.9527 / -122.9406 | RESEARCH DATE: 10/31/2013 |
| | SERIES: 7.5 | | |
| | SCALE: 1:24000 | | |
| | | | |

Historical Topographic Map



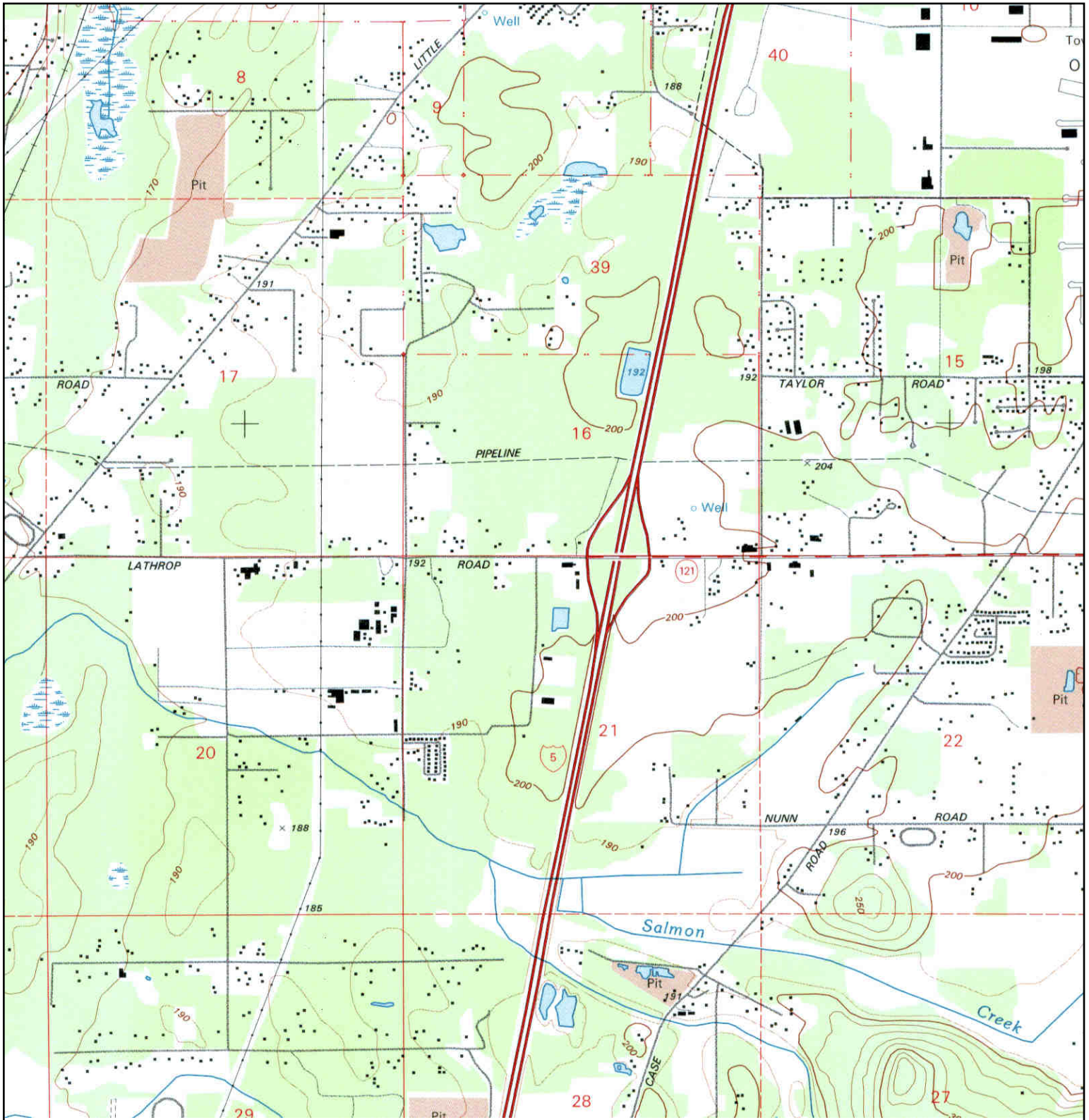
| | | | |
|--|---------------------------------|--|---------------------------------------|
| | TARGET QUAD | SITE NAME: Restover Truckstop | CLIENT: Robinson & Noble, Inc. |
| | NAME: MAYTOWN | ADDRESS: 2729 93rd Avenue Southwest | CONTACT: Tonya Johnson |
| | MAP YEAR: 1973 | Olympia, WA 98512 | INQUIRY#: 3773458.4 |
| | PHOTOREVISED FROM : 1959 | LAT/LONG: 46.9527 / -122.9406 | RESEARCH DATE: 10/31/2013 |
| | SERIES: 7.5 | | |
| | SCALE: 1:24000 | | |
| | | | |


Historical Topographic Map



| | | | |
|--|--|--|--|
|  | TARGET QUAD NAME: TENINO MAP YEAR: 1975 | SITE NAME: Restover Truckstop ADDRESS: 2729 93rd Avenue Southwest Olympia, WA 98512 LAT/LONG: 46.9527 / -122.9406 | CLIENT: Robinson & Noble, Inc. CONTACT: Tonya Johnson INQUIRY#: 3773458.4 RESEARCH DATE: 10/31/2013 |
| | SERIES: 15 SCALE: 1:50000 | | |

Historical Topographic Map



| | | | |
|--|---|--|--|
|  | TARGET QUAD NAME: MAYTOWN MAP YEAR: 1990 | SITE NAME: Restover Truckstop ADDRESS: 2729 93rd Avenue Southwest Olympia, WA 98512 LAT/LONG: 46.9527 / -122.9406 | CLIENT: Robinson & Noble, Inc. CONTACT: Tonya Johnson INQUIRY#: 3773458.4 RESEARCH DATE: 10/31/2013 |
| | SERIES: 7.5 SCALE: 1:24000 | | |



Restover Truckstop

2729 93rd Avenue Southwest
Olympia, WA 98512

Inquiry Number: 3773458.3

October 31, 2013

Certified Sanborn® Map Report

Certified Sanborn® Map Report

10/31/13

Site Name:

Restover Truckstop
2729 93rd Avenue Southwest
Olympia, WA 98512

Client Name:

Robinson & Noble, Inc.
3011 Huson Street South
Tacoma, WA 98409



EDR Inquiry # 3773458.3

Contact: Tonya Johnson

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Certified Sanborn Results:

Site Name: Restover Truckstop
Address: 2729 93rd Avenue Southwest
City, State, Zip: Olympia, WA 98512
Cross Street:
P.O. # NA
Project: 2214-020A
Certification # EF39-413A-931A



Sanborn® Library search results
Certification # EF39-413A-931A

UNMAPPED PROPERTY

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

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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Restover Truckstop

2729 93rd Avenue Southwest
Olympia, WA 98512

Inquiry Number: 3773458.6
November 01, 2013

The EDR-City Directory Image Report

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SECTION

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City Directory Images

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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.

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.

| <u>Year</u> | <u>Target Street</u> | <u>Cross Street</u> | <u>Source</u> |
|-------------|-------------------------------------|--------------------------|---------------------------|
| 2013 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cole Information Services |
| 2008 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cole Information Services |
| 2003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cole Information Services |
| 1999 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cole Information Services |
| 1995 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1989 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1984 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1978 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1973 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1968 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |
| 1963 | <input type="checkbox"/> | <input type="checkbox"/> | Polk's City Directory |

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FINDINGS

TARGET PROPERTY STREET

2729 93rd Avenue Southwest
Olympia, WA 98512

Year

CD Image

Source

93RD AVE SW

| | | | |
|------|-------|---------------------------|-----------------------------|
| 2013 | pg A1 | Cole Information Services | |
| 2008 | pg A2 | Cole Information Services | |
| 2003 | pg A3 | Cole Information Services | |
| 1999 | pg A5 | Cole Information Services | |
| 1995 | - | Polk's City Directory | Street not listed in Source |
| 1989 | - | Polk's City Directory | Street not listed in Source |
| 1984 | - | Polk's City Directory | Street not listed in Source |
| 1978 | - | Polk's City Directory | Street not listed in Source |
| 1973 | - | Polk's City Directory | Street not listed in Source |
| 1968 | - | Polk's City Directory | Street not listed in Source |
| 1963 | - | Polk's City Directory | Street not listed in Source |

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

93RD AVE SW 2013

| | |
|------|--------------------------------------|
| 1510 | JOHNSONS MACHINE & PERFORMANCE SHOP |
| 1845 | LTL INC |
| 1850 | HARSCO CORP |
| 1900 | CUPP APPRAISALS |
| | GARYS GARDEN GATE |
| 1902 | LANAE ALDRICH |
| 2001 | WASHINGTON CEDAR & SUPPLY |
| 2020 | JOSEPH SCHELLER |
| 2122 | ROBERT SCHELLER |
| 2201 | EDWARD JONES |
| | EDWARD JONES FINANCIAL ADVISOR ME |
| | JIM HUNTER & ASSOCIATES |
| | MEE PHILLIP ACCOUNTING |
| | SH ELECTRIC |
| 2209 | JOHNSON & MADDOX CONSTRUCTIONS CO IN |
| | JOHNSON PROPERTIES |
| 2222 | OCCUPANT UNKNOWN |
| 2303 | ADAIR HOMES |
| 2321 | OCCUPANT UNKNOWN |
| 2416 | OCCUPANT UNKNOWN |
| 2421 | 93RD AVE ESPRESSO |
| | LINCOLN CREEK LUMBER CO |
| 2430 | ILS WAYPORT |
| | MCDONALDS TUMWATER PILOT |
| | PILOT TRAVEL |
| 2725 | DEANNAS RESTAURANT |
| 2729 | MARION GIERSZEWSKI |
| | REST OVER TRUCK STOP |
| | RESTOVER TRUCK PLAZA |
| 2742 | OCCUPANT UNKNOWN |
| 2828 | PAUL SPICCOLI |
| 2842 | MICHAEL MULLEN |
| 2855 | OCCUPANT UNKNOWN |
| 2900 | GUARDIAN SELF STORAGE |
| | UHAUL NEIGHBORHOOD DEALER |
| 2901 | OCCUPANT UNKNOWN |
| 2907 | OCCUPANT UNKNOWN |
| 2910 | BLUE MOUNTAIN MECHANICAL |
| | DENVER SCHMIDTKE |
| 2920 | OCCUPANT UNKNOWN |
| 3012 | OCCUPANT UNKNOWN |
| 3040 | SHINEABLIND |
| 3100 | LANCE KINNEY |
| 3102 | CHRISTINE FEW |
| 3126 | JAMES SHUMATE |
| 3215 | KYLE MILLER |
| 3232 | LMC INC |
| | OCCUPANT UNKNOWN |



-

93RD AVE SW 2008

1845 WEIKS TRUCKING & EXCAVATION
 1850 TECTONIX INC
 1900 DEBORAH CUPP APPRAISALS
 GARYS GARDEN GATE
 2001 MR WHO GREENS CORP
 TRANS ATM LLC
 WASHINGTON CEDAR & SUPPLY CO
 2020 JOSEPH SCHELLER
 2122 ROBERT SCHELLER
 2201 AYRES & ASSOCIATES LLC
 CARPENTRY SOLUTIONS LLC
 DOUBLE D TREE SERVICE LLC
 JIM HUNTER & ASSOCIATES
 MEE PHILLIP ACCOUNTING
 NORMAN SCOTT LLC
 ROCK PRODUCTS LLC
 URBAN TANNING SPA LTD
 2222 JOSEPH HULL
 2303 ADAIR HOMES INC
 INDUSTRIAL & MARINE MANAGEMENT
 2321 ROBERT REID
 2416 OCCUPANT UNKNOWN
 2421 LINCOLN CREEK LUMBER CO INC
 2430 HANSEN CONSTRUCTION
 2725 K KISMET
 RESTOVER TRUCK STOP
 2729 KISMET KA SITARA LLC
 2742 MAHAM BAJWA
 2828 MARVIN LOCKE
 2842 APRIA HEALTHCARE
 MICHAEL MULLEN
 2855 BRIAN LARSON
 2900 GUARDIAN SELF STORAGE
 2901 OCCUPANT UNKNOWN
 2907 FRAN BURTON
 2910 OCCUPANT UNKNOWN
 2920 KAPPERT WATERFRONT CONSTRUCTION
 OCCUPANT UNKNOWN
 3002 BROCK LOGAN
 3012 LARRY RIPPLEY
 3040 BLIND DEPOT INC
 OCCUPANT UNKNOWN
 3100 JENNIFER KINNEY
 3102 OCCUPANT UNKNOWN
 3111 JAMES NELSON
 3126 JAMES SHUMATE
 3215 SANDRA WALKER
 3232 LMC INC
 MIKEAL LINKER



-

93RD AVE SW 2003

1510 GEORGE JOHNSON
 JOHNSONS MACHINE
 1850 MASON MANNING
 OLYMPIC STRUCTURES INC
 1900 GARY WALDHERR
 PETE SEWARD
 SARAH STANSBURY
 SEWARD & SONS SERVICES
 2001 MR WHO GREENS
 2020 JOSEPH SCHELLER
 2122 ROBERT SCHELLER
 2201 BELL & JOLLY CONSTRUCTION
 JIM HUNTER & ASSOCS
 LEGENDS ROOFING CO
 PHILLIP MEE
 PHILLIP MEE
 RON HILL
 2209 GROUP 7 INC
 JOHNSON & MADDOX
 JOHNSON PROPERTIES
 2222 TOM HULL
 TOMS TOPSOIL
 2303 ADAIR HOMES INC
 OCCUPANT UNKNOWN
 2321 ALLEN REID
 2416 OCCUPANT UNKNOWN
 2421 93RD AVE ESPRESSO
 ACE HARDWARE LNCLN CREEK LMBR
 LINCOLN CREEK LUMBER
 2725 ALS I 5 TRUCK SERVICE
 K KISMET
 RESTOVER AUTO TRUCK STOP
 2729 RESTOVER TRUCK STOP
 2742 RJ WELLS TRUCKING
 RONNY WELLS
 2828 MARVIN LOCKE
 2855 BRIAN LARSON
 2901 STANLEY GOERCKE
 2907 JOE TOWNSEND
 2910 OCCUPANT UNKNOWN
 2920 TIMOTHY TURNER
 2944 MOUNTAIN WEST FABRICATION
 3002 BROCK LOGAN
 3012 LARRY RIPPLEY
 3040 BLIND DEPOT SHINE
 DONNAS ECO SCAPES
 MARK ZORAD
 SHINE A BLIND
 3100 DALE KINNEY
 3102 KIMBERLY LOGAN



-

93RD AVE SW 2003 (Cont'd)

3111 JAMES NELSON
3126 JAMES SHUMATE
3215 E BENAVIDEZ
3232 LMC INC



-

93RD AVE SW 1999

1510 CAPT CRUNCH AUTO DISMANTLING
 JOHNSON'S MACHINE
 1850 OLYMPIC STRUCTURES INCORPORATED
 1900 A AACTION GROUP
 BEN POTTER
 2001 MR WHO GREENS
 WASHINGTON CEDAR & SUPPLY COMPANY
 2020 JOSEPH SCHELLER
 2122 ALFRED SCHELLER
 2201 BELL & JOLLY CONSTRUCTION
 GROUP/7 INCORPORATED
 HILL RON GROUP/7 INCORPORATED
 HUNTER JIM AND ASSOCIATES
 MEE PHILLIP CPA
 RON HILL
 2209 JOHNSON & MADDOX CONST COMPANY INCORPORATED
 JOHNSON PROPERTIES
 2222 TOM HULL
 2303 ADAIR HOMES INCORPORATED CONSTRUCTION
 ADAIR HOMES INCORPORATED SALES
 2321 ALLEN REID
 2416 T THOMAS
 2421 ACE HARDWARE LINCOLN CREEK LUMBER COMPANY
 LINCOLN CREEK LUMBER ACE HARDWARE
 2430 WASHINGTON STATE OF STATE PATROL
 2725 HANNAHS PANTRY
 RESTOVER AUTO TRUCK STOP
 2729 OCCUPANT UNKNOWN
 SOUND HOME TRANSPORT
 2734 OCCUPANT UNKNOWN
 2742 RONNY WELLS
 2828 L DEMARS
 2855 BRIAN LARSON
 2901 STANLEY GOERCKE
 2907 ERIC RIPPLEY
 2910 COOPER LOGGING & TREE SERVICE INCORPORATED
 NW TIMBER SERVICES
 OCCUPANT UNKNOWN
 RICH COOPER LOGGING
 2920 STEVE TURNER
 3002 B LOGAN
 3012 LARRY RIPPLEY
 3040 BLIND DEPOT SHINE A BLIND
 OCCUPANT UNKNOWN
 3100 DALE KINNEY
 3102 K LOGAN
 3111 MELVIN NELSON
 3126 JIM SHUMATE
 3232 DON TOWNE

APPENDIX E

Thurston County Assessor

Parcel Number: 12721210200

Date: 11/11/2013

| | |
|---|--|
| <p>Situs Address: 2725 93RD AVE SW</p> <p>Owner: KISMET KA SITARA LLC Address: 2729 93RD AVE SW OLYMPIA, WA 98512-9144</p> <p>Taxpayer: KISMET KA SITARA LLC Address: 2729 93RD AVE SW OLYMPIA, WA 98512-9144</p> <p>Abbreviated Legal: Section 21 Township 17 Range 2W Quarter NE NW BLA000846TC TR B Document 3336732</p> <p>Associations: 99001849800 LEOS GRILL 99000358200 RESTOVER TRUCKSTOP</p> | <p>Sect/Town/Range: 21 17 2W</p> <p>Size: 5.50 Acres</p> <p>TCA Number: 471 Neighborhood: 62N1 Property Type: RTL Taxable: YES Active Exemptions: None Fire District: FIRE DISTRICT #11 Fire District: W THURSTON RFA School District: TUMWATER S.D. #33</p> |
|---|--|

Market Values

| Tax Year Assessment Year | 2014 | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| Year | 2013 | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 |
| Market Value Land | \$1,096,600 | \$1,169,700 | \$1,169,700 | \$856,550 | \$1,052,300 | \$954,450 | \$856,550 | \$815,750 | \$500,200 | \$333,500 |
| Market Value Buildings | \$526,600 | \$581,300 | \$662,700 | \$710,300 | \$736,800 | \$714,100 | \$674,200 | \$650,200 | \$522,800 | \$622,800 |
| Market Value Total | \$1,623,200 | \$1,751,000 | \$1,832,400 | \$1,566,850 | \$1,789,100 | \$1,668,550 | \$1,530,750 | \$1,465,950 | \$1,023,000 | \$956,300 |

Commercial Structures

| Building | Year Built | Floor | Square Feet | No. Floors | Total Sq. Ft. | Quality | Condition |
|--------------|------------|-------|-------------|------------|---------------|----------|-----------|
| RESTAURANT | 1969 | 1 | 3100 | 1 | 3100 | LOW/FAIR | AVERAGE |
| | | | | | ----- 3100 | | |
| CONVENC-STOR | 1969 | 2 | 1860 | 1 | 1860 | AVERAGE | AVERAGE |
| | | | | | ----- 1860 | | |
| CLUB-HOUSE | 1969 | 1 | 2460 | 1 | 2460 | FAIR | FAIR |
| | | 2 | 2100 | 1 | 2100 | | |
| | | | | | ----- 4560 | | |

Detached Structures

| Code | Year Built | Square Feet | Quality | Condition |
|---------------|------------|-------------|----------|-----------|
| PVNG-ASPHALT | 1969 | 129156 | LOW/FAIR | POOR |
| PVNG-CONCRTE | 1969 | 4408 | AVERAGE | AVERAGE |
| CC PUMP ISLND | 1999 | 918 | FAIR | AVERAGE |

Land Characteristics

| | | | |
|---------------------------|------------|--------------------------|--|
| Land Flag | 8040 | Land Influence(s) | CG-CONVIENCE/GAS MT-MOD-TRAFFIC PS-PART IMPRVD SITE IA-INTERCHANGE ACCESS |
| Lot Square Footage | Not Listed | | |
| Lot Acreage | 5.5 | | |
| Effective Frontage | Not Listed | | |
| Effective Depth | Not Listed | | |
| Water Source | Not Listed | | |
| Sewer Source | Not Listed | | |

Sales

| | | | |
|-------------------|------------|------------|------------|
| Sale Date: | 02/28/2001 | 02/28/2001 | 02/28/2001 |
|-------------------|------------|------------|------------|

| | | | |
|------------------------------|----------------------|----------------------|----------------------|
| Price: | \$500,000 | \$500,000 | |
| Excise: | 286743S | 286744S | 292055 |
| Sale Type: | STATUTRY WARNTY DEED | STATUTRY WARNTY DEED | STATUTRY WARNTY DEED |
| Recording Number: | 3339511 | 3339511 | 3374453 |
| Seller: | COSDEN TIMOTHY | | |
| Buyer: | KISMET KA SITARA LLC | KISMET KA SITARA LLC | KISMET KA SITARA LLC |
| Multiple Parcel Sale: | N | N | N |

The Assessor's Office maintains property records on approximately 112,000 parcels in Thurston County for tax purposes. Though records are updated regularly, the accuracy and timeliness of published data cannot be guaranteed. Any person or entity that relies on information obtained from this website does so at his or her own risk. Neither Thurston County nor the Assessor will be held liable for damage or losses caused by use of this information. ***All critical information should be independently verified.***

Office of the Assessor

Steven J. Drew, Assessor

2000 Lakeridge Drive SW - Olympia, WA 98502

Customer Service (360)867-2200 -- Fax (360)867-2201 -- TDD (360)754-2933



ASSOCIATED
ENVIRONMENTAL
GROUP, LLC

August 22, 2013

Mr. Dayabir (Pintu) Bath
P.O. Box 5
Olympia, Washington 98507-0005

RE: Remedial Action - Soil Excavation, Groundwater Monitoring Well Installation, and Sampling Letter Report

Restover Truck Stop
2725 – 93rd Avenue SW
Olympia, WA 98501

Dear Mr. Bath:

Associated Environmental Group (AEG) has conducted remedial action activities (excavation) to remediate petroleum contaminated soil (PCS) at the Restover Truck Stop property, located at the above-referenced address in Olympia, Washington (herein referred to as the Site). In addition, AEG drilled, installed, and sampled a monitoring well adjacent to the excavation to replace one that was destroyed during excavation. This letter report summarizes the field activities, the analytical results for the soil and groundwater samples collected during the remedial action activities, and two groundwater monitoring events. Our recommendations regarding additional activities at the Site are also included in this report.

SITE BACKGROUND

The Restover Truck Stop is located ten miles south of Olympia, Washington, on 93rd Avenue, immediately west of Exit 99 on Interstate 5. The five acre facility includes a gas station, minimart, restaurant, and hotel. The gasoline station has been in operation since 1969. Figure 1, *Site and Vicinity Map*, presents the general boundaries of the Site and vicinity area.

In 1971, the first report of groundwater contamination from petroleum products was discovered in a domestic water well across 93rd avenue from the Restover Truck Stop. More reports came in from other wells successively farther from the truck stop through 1982. Ecology oversaw site cleanup actions after numerous investigations revealed the source of the contamination. It was estimated by Ecology that about 65,000 gallons of gasoline were lost at Restover between 1974, and 1981 (Ecology and Environment, Inc., 1991). Since discovery of the contamination, numerous remedial actions have been successfully completed. Monitoring wells offsite in former areas of environmental concern have been decommissioned. Additionally, with the exception of a monitoring well located in the northern area of the Site, WDOE-6A, the remaining wells at the Site have also been decommissioned.

Well WDOE-6A has continued to slowly show declining concentrations of total petroleum hydrocarbons in the gasoline range (TPH-G) and benzene detected above the Model Toxics Control Act (MTCA) Method A cleanup levels. In an effort to accelerate the biodegradation of the TPH-G and benzene, approximately 800 pounds of Regenesis' Oxygen Releasing Compound - Advanced (ORC-A[®]) was injected into the subsurface around well WDOE-6A in May 2012. This appeared to have limited effect and it was suggested that there may be a pocket of residual contamination at well WDOE-6A. Based on this information, it was decided to attempt to excavate well WDOE-6A and the adjacent soil.

SCOPE OF WORK

This portion of the project included:

- The excavation, transport, and disposal of PCS from the location of groundwater monitoring well WDOE-6A (refer to Figure 1, *Site and Vicinity Map*), using a backhoe operated by AEG's subcontractor, Advance Environmental;
- Placement of 175 pounds of ORC-A[®] in the excavation, mixed with the backfill;
- Drilling and installing a 20-foot deep groundwater monitoring well adjacent to the excavation to replace well WDOE-6A which was destroyed during excavation (Well WDOE-6AR); and
- Sampling the water from the new monitoring well, WDOE-6AR twice (3 months apart).

Excavation Activities

On April 9, 2013, approximately 46.5 tons of petroleum contaminated soil (PCS) was excavated at the location of monitoring well WDOE-6A to a depth immediately above the saturated zone; 16 feet below ground surface (bgs); using a track-hoe operated by Advance Environmental. When it was estimated that the contaminated soil was removed, soil samples were collected from the base of the excavation at 16 feet bgs and from the north sidewall at 11 feet bgs. These samples were field screened for petroleum hydrocarbon volatiles using a photo ionization detector (PID) instrument.

The field screening did not detect petroleum hydrocarbon volatiles in the sidewall sample and detected 7.6 parts per million (ppm) of volatile constituents at 16 feet bgs. Because groundwater was found at 16 feet bgs, further excavation to a deeper depth was not possible.

Subsurface conditions at the excavation location generally consisted of a brown sand with gravel to a depth of approximately 2½ feet bgs, and brown medium sand to the base of the excavation at 16 feet bgs.

Backfill and Oxygen Reducing Compound Treatment

After collection of the samples for field screening, the excavation was backfilled with crushed recycled concrete backfill material. To accelerate the microbial degradation of any remaining

petroleum hydrocarbons in soil, 175 pounds of Regenesys' ORC-A[®] powder was added to the groundwater accumulated in the excavation at a depth of approximately 16 feet bgs. According to Regenesys, ORC-A[®] is a:

“...calcium oxy-hydroxide that provides controlled-release molecular oxygen to the subsurface environment where it will accelerate the rate of naturally occurring aerobic contaminant biodegradation in groundwater and saturated soils for up to 12 months upon hydration...”

The excavation backfill was then compacted and the area repaved with asphalt. The final dimension of the excavation was approximately 8 feet long by 6 feet wide by 16 feet in depth.

Soil Disposal

A total of approximately 46.5 tons of petroleum contaminated soil (PCS) was excavated from the Site. The PCS was loaded onto trucks at the Site and transported to the Wasco County Landfill in The Dalles, Oregon, for ultimate disposal and treatment. A copy of the Wasco Landfill Special Waste Application is attached in Appendix A – Supporting *Documents*.

Well Installation

During excavation, groundwater monitoring well WDOE-6A was entirely removed and transported offsite for disposal. To replace the well that was removed, on April 17, 2013, AEG and its subcontractor, ESN Northwest, drilled and installed a new monitoring well approximately 5 feet west of the excavation.

This well, designated WDOE-6AR, was drilled and constructed using a 9-inch outside diameter/4¼-inch inside diameter hollow-stemmed auger. The well was constructed using 2-inch PVC well screen and casing to a depth of 21 feet bgs. The screened interval is 15 feet long, from 5 feet to 20 feet bgs. The well was completed as a “flush-mount well” per the Ecology regulations, WAC 173-160 - *Minimum Standards for Construction and Maintenance of Wells*. A copy of the boring log and well construction diagram is attached in Appendix A - *Supporting Documents*. At the time of drilling, water was encountered at a depth of approximately 11 feet bgs.

After construction of the well, it was developed using a submersible pump to remove water with entrained fine grained sediments (fines) from the vicinity of the well screen. This was to allow the water to flow freely from the formation into the well, and also reduce the turbidity of the water during sampling. The well was then allowed to equilibrate with the formation for approximately 12 days before it was sampled.

Groundwater Sampling and Analyses

On April 29, 2013, AEG sampled Well WDOE-6AR. Upon arriving at the site, a depth to water measurement was obtained and the well assessed for the presence of potential light non-aqueous phase liquid (LNAPL) i.e. free product. The well was then sampled following industry standard low-flow purging and sampling techniques. The sample was collected in laboratory provided

containers and placed in a portable chilled ice chest for transport to a Washington State accredited environmental laboratory for analysis (Libby Environmental, Inc.). The well was sampled again on July 29, 2013 following the same procedures.

The samples were analyzed for TPH-G and the fuel associated volatile organic compounds benzene, toluene, ethylbenzene, and total xylenes (BTEX).

RESULTS

The results from the analyses as well as the historical analytical results from the destroyed well WDOE-6A are presented in the attached Table 1 - *Summary of Groundwater Analytical Results*. The laboratory datasheets from Libby Environmental Inc. are attached in Appendix A - *Supporting Documents*.

April 29, 2013 Groundwater Sample Results

The results for the April 29, 2013, sampling event show that the water sample from monitoring well WDOE-6AR contained gasoline range TPH at 5,900 ug/l which is above the Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A cleanup level of 800 ug/l for groundwater containing benzene, and above the cleanup level of 1,000 ug/l for groundwater not containing benzene. Benzene was not detected in the sample from well WDOE-6AR. However, benzene has been historically detected in previous sampling events at the destroyed well WDOE-6A.

The concentration of gasoline TPH in the sample from well WDOE-6AR during the April 2013 sampling event was higher than the previous sampling at well WDOE-6A. It is not known why the TPH concentration was higher but may be a result of disturbing the soil and groundwater during excavation. Because benzene is volatile, the mixing of soil may have caused the benzene to volatilize resulting in the non-detection of that constituent in the groundwater sample from well WDOE-6AR.

The gasoline associated volatile organic compounds ethylbenzene and total xylenes were also detected in the sample from well WDOE-6AR at 4.89 ug/l and 14.2 ug/l, respectively, significantly below the MTCA Method A cleanup levels of 700 ug/l for ethylbenzene and 1,000 ug/l for total xylenes.

July 29, 2013 Groundwater Sample Results

The analytical results for the groundwater samples collected on July 29, 2013 show that the level of TPH gasoline has decreased significantly to 800 ug/l. This concentration is the MTCA Method A Cleanup level. The analytical results also show that the concentrations of ethylbenzene and total xylenes have decreased and remain below the MTCA Method A cleanup level, at 2.1 ug/l and 8.2 ug/l. In contrast, the concentrations of benzene and toluene increased slightly from being not detectable, to 1.3 ug/l and 3.3 ug/l respectively. These concentrations are slightly above the laboratory reporting limit and are still significantly below the MTCA Method A cleanup level.

Because the TPH gasoline concentration in the groundwater is not below its cleanup level and because the previous sampling event show a significantly higher concentration of TPH gasoline, Ecology may not consider the sample “clean”.

The reason for the significant decrease in the TPH gasoline concentration may be a result of the groundwater concentrations equilibrating after the excavation, or a result of the ORC-A[®] releasing oxygen and stimulating biodegradation. ORC-A[®] is reported to have a lifespan of up to 12 months and would likely still be releasing oxygen at the Site. In addition, the depth to water was significantly lower in the July 2013, sampling event.

In the April 2013 sampling event, the depth to water was 10.75 feet below the top of the well casing. In July, the depth to water was 15.38 feet below the top of the well casing (Table 2, *Summary of Depth to Water Measurements*). This is to be expected since July is the “dry” season of the year in Western Washington. If there is residual gasoline contamination remaining in the soil at shallow depths, as the water levels decline there would be less contact with contaminated soil and the concentrations of TPH in the water would be lower.

RECOMMENDATIONS

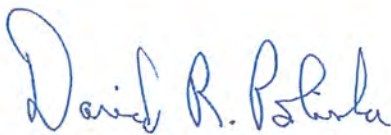
Because gasoline range TPH was found in the groundwater samples from well WDOE-6AR in concentrations at or above the MTCA Method A cleanup levels, and because ORC-A[®] was mixed into the excavation backfill, it is recommended that the well be sampled quarterly to determine if the concentration is continuing to decline, and if the ORC-A[®] is still active at the Site. In addition, sampling throughout the various seasons will assist in determining if there is a correlation between the depth to groundwater and the concentrations of TPH.

Once the ORC-A[®] is no longer active, Ecology will require a minimum of four quarters of “clean” samples before they will consider issuing a “no further action” (NFA) letter. Should the concentrations of TPH-G not continue to decline and remain at or above the Method A cleanup levels, further assessment and/or remediation may need to be considered.

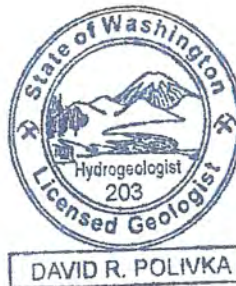
Please do not hesitate to contact us at 360-352-9835 should you have questions or require additional information.

Sincerely,

Associated Environmental Group, LLC





David R. Polivka, L.G./L.H.G.
Senior Project Hydrogeologist



- Attachments: Figure 1 – *Site and Vicinity Map*
Table 1 – *Summary of Groundwater Analytical Results*
Table 2 – *Summary of Depth to Water Measurements*
Appendix A – *Supporting Documents* (Special Waste Application, Boring Log
and Laboratory Datasheets)
Appendix B – *Site Photographs*



- 
 APPROXIMATE EXCAVATION AREA
 (Location not to scale with figure)

- 
 APPROXIMATE MONITORING WELL LOCATION
 (Location not to scale with figure)



ASSOCIATED ENVIRONMENTAL GROUP, LLC

FIGURE 1
Site and Vicinity Map

RESTOVER TRUCK STOP
 2725 93rd Ave. SW
 Olympia, WA
 AEG Project No.: 12-116

Table 1 Summary of Groundwater Analytical Results
Restover Truck Stop
Olympia, WA

| Well Number ¹ | Date Sampled | Gasoline TPH ² (ug/L) | Select Volatile Organic Compounds ³ (ug/L) | | | | BTEX ⁵ (ug/L) |
|---------------------------------------|--------------|-------------------------------------|---|---------|--------------|---------------|-----------------------------|
| | | | Benzene | Toluene | Ethylbenzene | Total Xylenes | |
| WDOE-6A | February-97 | 9,900 | 16 | 14 | 61 | 219 | -- |
| | August-97 | 9,010 | 8 | 11 | 44 | 156 | -- |
| | February-98 | 4,500 | 20 | 40 | 34 | 126 | -- |
| | January-99 | 7,900 | 29 | 15 | 76 | 300 | -- |
| | January-00 | 7,300 | 17 | 7.8 | 53 | 160 | -- |
| | 2/5/2002 | 6,500 | 19 | 9 | 69.0 | 159.0 | 255 |
| | 10/3/2005 | 3,400 | 5.5 | 1.3 | 14.4 | 23.4 | -- |
| | 3/16/2012 | 1,800 | <1 | <1 | 1.6 | 2.3 | -- |
| | 11/13/2012 | 2,200 | 2.4 | 3.2 | 11.4 | 15.0 | -- |
| | 2/12/2013 | 3,600 | 15.6 | 10.4 | 19.5 | 35.9 | -- |
| WDOE-6ARW | 4/29/2013. | 5,900 | <1 | <2 | 4.89 | 14.2 | -- |
| | 7/29/2013 | 800 | 1.3 | 3.3 | 2.1 | 8.2 | -- |
| PQL | | 100 | 1 | 2 | 1 | 3 | |
| Ecology MTCA Method A Clean Up Levels | | 800 ⁴ | 5 | 1,000 | 700 | 1,000 | |

Notes:

- ¹ Approximate monitoring well location is shown in Figure 1
 - ² Gasoline range total petroleum hydrocarbons (TPH). Analyzed by Northwest Method NWTPH-Gx
 - ³ Select Volatile Organic Compounds (VOC). Analyzed by EPA Method 8021B.
 - ⁴ Cleanup level with presence of benzene
 - ⁵ VOC data from Ecology reports. VOCs were reported as a combined BTEX value. Note: Data from 1997 to 2005 from Ecology reports.
- ug/L= micrograms per liter
 MTCA = Model Toxics Control Act
 PQL=Practical Quantitation Limits
 -- = not analyzed for this constituent
 < = not detected above laboratory limits
 * Ecology has not designated a MTCA Method A cleanup level for this constituent
 Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

**Table 2 Summary of Depth-to-Water Measurements
Restover Truck Stop
Olympia, WA**

| Well Number/ TOC Elevation (feet) | Date of Measurement | DTW (TOC) (feet) | DT LPH (feet) | LPH (feet) | GW Elevation (feet) | Change in GW Elevation (feet) |
|---|------------------------|---------------------|------------------|---------------|------------------------|-------------------------------------|
| WDOE-6A | 3/16/2012 | 9.30 | | | | |
| | 11/13/2012 | 16.78 | | | | |
| | 2/12/2013 | 10.88 | | | | |
| WDOE-6ARW | 4/29/2013 | 10.75 | | | | |
| | 7/29/2013 | 15.38 | | | | |

Notes:

TOC = Top of casing elevation relative to assigned benchmark.

DTW = Depth to water below top of casing.

DT LPH = Depth to liquid phase hydrocarbons

LPH = Liquid phase hydrocarbons thickness.

GW Elevation = Groundwater Elevation

-- = Not measured, not available, or not applicable

APPENDIX-A
Supporting Documents

(Special Waste Application; Boring Log; Laboratory Datasheets)

Wasco Landfill
 2550 Steele Road
 The Dalles, OR 97058
 PH: 541.296.4082
 FX: 541.296.6449



FOR OFFICE USE ONLY

APPROVAL NUMBER:

EXPIRATION DATE:

APPROVED BY:

SPECIAL WASTE APPLICATION

Information utilized for completion of this form must originate from an authorized representative of the generator of the waste material.
 The information on this form must be COMPLETELY FILLED OUT, TYPE WRITTEN, and the form must be SIGNED BY AUTHORIZED REPRESENTATIVE.

A. PROFILE INFORMATION

1. Initial Recertification, list prior approval number(s):
 2. Have there been any changes to the composition of, or process generating this waste stream that would alter the characteristics of the waste stream?
 YES NO (Updated analysis may be required even if no change to process or composition.)

B. GENERATOR INFORMATION

1. Generator Name: Rest Over Truck Stop
 2. Address: 2729 93rd Ave. SW
 City: Olympia County: Thurston
 State: WA Zip: 98512
 3. Site Location (if different):
 4. Contact Name: Matthew Wilson
 5. Phone Number: (360) 485-2231 6. Fax Number: (360) 352-8164
 7. Email Address: mwilson@aegwa.com
 8. State Facility ID # (if applicable):
 9. State Waste Code (if applicable):

C. CUSTOMER/BILLING INFORMATION

1. Billing Name: Associated Environmental Group, LLC
 2. Address: 605 11th Ave. SE Suite 201
 City: Olympia County: Thurston
 State: WA Zip: 98501
 3. Contact Name: Michael Chun
 4. Phone Number: (360) 352-9835 5. Fax Number: (360) 352-8164
 6. Email Address: mchun@aegwa.com
 7. Is there a service agreement on file? YES NO
 8. Agent / Consultant: Associated Environmental Group, LLC
 9. Letter of Authorization: YES NO

D. TRANSPORTER/SHIPPING INFORMATION

1. Name: To be determined
 2. Street Address:
 City: State: Zip:
 3. Phone Number: 4. Fax Number:
 5. Contact Name:
 6. Email Address:
 7. EPA or State Transporter ID #:
 8. Packaging: Bulk Solids Bulk Liquids Drums Roll-Off
 Dump Truck Tank Truck Vacuum Box Bagged
 9. Estimated Volume: 16
 Tons Cubic Yards Drums Gallons Other: _____
 10. Shipping Frequency: _____ per: One Time Project
 Month Quarter Year Other: _____

E. WASTE STREAM INFORMATION

1. Common Name of Material or Waste Stream:
 Soil
 2. Detailed Description of Process or How Generated (Attach additional sheet if needed):
 Excavation
 3. Physical State at 70°F: Solid Semi-Solid Sludge
 Liquid Powder Other _____
 4. Free Liquids: NO YES % Liquids:
 5. Color: Brown 6. pH Range: 7
 7. Odor: None Mild Significant Describe:
 8. Flash Point: 165 °F °C
 9. Reactive: NO YES with:
 10. State Required Information (if applicable):

F. NON-HAZARDOUS DETERMINATION

1. Attached Document(s) (check all that apply): Not Applicable Process Knowledge MSDS Certified Analytical Report Exempt Waste
 2. If Process Knowledge, provide details:
 3. If analytical data is attached, is the data derived from testing a representative sample in accordance with 40 CFR 261 and/or other applicable laws?
 YES NO Type of Sample: Composite Grab Analysis Provided:
 4. If Exempt Waste, check applicable item below: UST Corrective Action - 40 CFR 261.4(b)(10) PCB Bulk Product Waste - 40 CFR 761.62
 Oil & Gas E&P Waste - 40 CFR 261.4(b)(5) RCRA-Empty Containers - 40 CFR 261.7 Other (provide reference):

G. GENERATOR CERTIFICATION STATEMENT:

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, labeled, and prepared as indicated. I certify this waste is not hazardous or dangerous as defined by the U.S. EPA, or the state or province of origin. I certify this waste does not contain any regulated radioactive materials, that all known and suspected hazards have been disclosed, and that the waste is not a regulated hazardous waste by government or local authority, and does not contain PCB's regulated by TSCA or any other regulatory authority. I certify that all samples used for this analysis are representative of the materials described herein. I understand that all wastes may undergo inspection upon arrival at the designated facility and may be refused if the delivered material does not conform to the description herein. Notification will be provided immediately if there is a change in the composition of, or process generating this waste stream, prior to offering the waste for shipment or management.

Matthew Wilson
 AUTHORIZED REPRESENTATIVE NAME/TITLE

 AUTHORIZED REPRESENTATIVE SIGNATURE

AEG, LLC
 COMPANY NAME
 4/1/13
 DATE COMPLETED

RESTOVER TRK STP
DEPARTMENT OF ECOLOGY
SIT 361

March 16, 1995

TO: Mike Kuntz
Toxics Cleanup Program

FROM: Pam Marti *PAM*
Environmental Investigations & Laboratory Services

SUBJECT: Restover Truck Stop Soil Sample Results collected April 1995

Soil samples were collected at the Restover Truck Stop on April 26-27, 1995 to assess the progress of the interim action. A summary of the results and the laboratory data sheets is attached. In all, ten soil bore samples were collected from five locations using pre-rinsed split-spoon samplers and a hollow stem auger drill. Sample locations and depths were determined from previous soil sampling which was conducted in March 1991 as part of the Feasibility Study.

Soil samples were analyzed for benzene, toluene, ethylbenzene, total xylene (BTEX) and total petroleum hydrocarbons as gasoline (TPH-G). All four BTEX compounds were detected in three of the samples: SSB14 at 20-22 and 24-26 feet and SSB1 at 22-24 feet, with total concentrations of 625 ug/kg, 1150 ug/kg and 430 ug/kg, respectively. Total xylene was detected in two additional samples: SSB5 at 10-12 and 20-22 feet at concentrations of 112,300 ug/kg and 240 ug/kg, respectively. Note that analytical detection limits for benzene, toluene, and ethylbenzene were high for sample SSB5 at 10-12 feet. TPH as gasoline was detected in all but one sample. Samples collected in 1991 for TPH were analyzed for total recoverable, which is not directly comparable to the TPH-G samples collected in 1995. A summary comparing analytical results is found in Table 1.

Maximum Toxic Control Act cleanup levels for soil were exceeded in sample SSB5 at 10-12 feet for TPH, xylene and possibly benzene (refer to Table 1). All other detections were substantially below MTCA cleanup levels.

Overall, comparable data sets from both sample events suggest that concentrations have decreased. This is most apparent for SSB5 at 10-12 feet. Toluene and ethylbenzene concentrations, which had exceeded MTCA cleanup levels in 1991, are substantially below cleanup levels in 1995. Total xylene concentrations have also decreased at this depth. Sample location SSB5 is located adjacent to the underground storage tanks. Total xylene concentrations for four samples with detected concentrations in 1991 (ranging from

... (100 to 200 ug/kg) were substantially lower in 1995 (ranging from 112,300 to less than 100,000)

Ground water monitoring at Restover will continue on a quarterly basis, which will provide additional information on the effectiveness of the interim action. If you have any questions or comments about this data please call me at 407-6768.

PM:jl

cc: Tim Nord
Larry Goldstein

Chemical Results for Restover Truck Stop Soil Samples collected on April 26-27, 1995 as compared to 1991 Sample Results

| Sample Identification (Depth) | R-TPH (mg/kg) | | TPH-G (mg/kg) | | Benzene (ug/kg) | | Toluene (ug/kg) | | Ethylbenzene (ug/kg) | | Total Xylene (ug/kg) | |
|-------------------------------|---------------|------|---------------|------|-----------------|------|-----------------|------|----------------------|----------|----------------------|------|
| | 1991 | 1995 | 1991 | 1995 | 1991 | 1995 | 1991 | 1995 | 1991 | 1995 | 1991 | 1995 |
| SSB1 18-20 | 36 | 3.3 | U | 11 | ND | 11 | ND | 11 | U | ND | 11 | U |
| SSB2 22-24 | | 61 | | 53 | | 110 | | 110 | U | | 110 | U |
| SSB3 10-12 | 220 | 3100 | U | 1300 | ND | 1300 | 49,000 J | 1300 | U | 24,000 J | 3800 | U |
| SSB5 20-22 | 520 | 66 | U | 10 | ND | 10 | ND | 10 | U | 1700 J | 30 | U |
| SSB14 20-22 | 11 | 61 | J | 36 | ND | 59 | ND | 59 | J | ND | 160 | J |
| SSB14 24-26 | | 67 | | 94 | | 98 | | 98 | | | 240 | |
| SSB2 18-20 | | 16 | | 8.8 | | 8.8 | | 8.8 | U | | 18 | U |
| SSB2 21-23 | 180 | 15 | U | 9.6 | ND | 9.6 | ND | 9.6 | U | ND | 19 | U |
| SSB1 18-20 | 13 | 15 | U | 9.1 | ND | 9.1 | ND | 9.1 | U | 1300 UU | 18 | U |
| SSB1 22-24 | | 49 | J | 43 | | 61 | | 61 | J | | 100 | J |

ND = The analyte was not detected at or above the reported value.

U = The analyte was not detected at or above the reported value.

J = The analyte was positively identified. The associated numerical value is an estimate.



LEGEND

SB-12
 ○ SOIL BORINGS

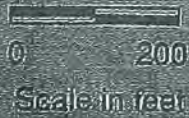
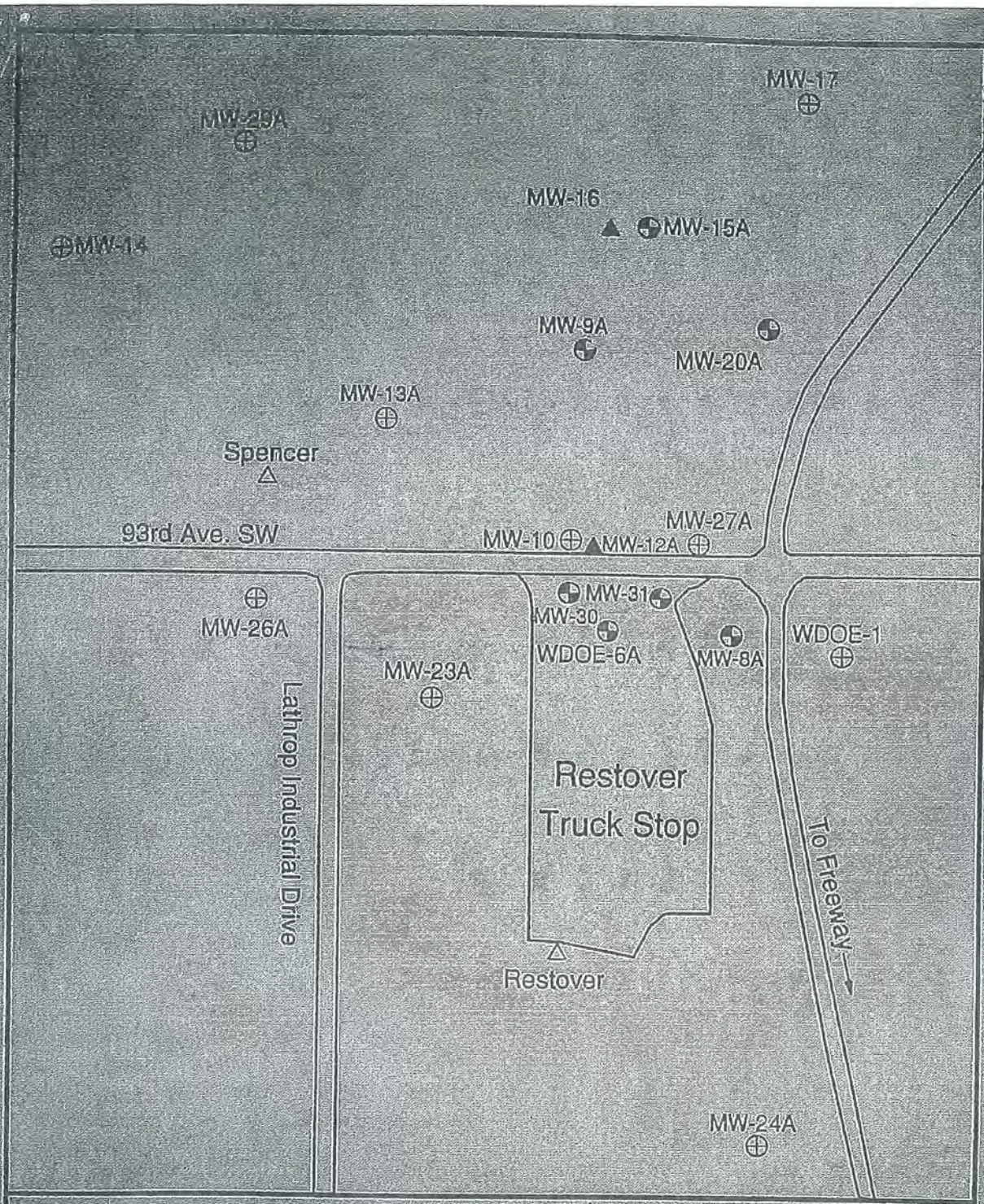


ecology and environment, inc.
 International Specialists in the Environment

FIGURE 3-1
RESTOVER TRUCK STOP
SOIL BORING LOCATIONS

RESTOVER TRUCK STOP
OLYMPIA, WA

| | | | |
|--------------------|-------------------|---------------------------|-----------------------|
| PROJECT MGR. JM | APPROVED BY JK | PROJECT/ICE NO. WDS030 | PLAN NO. |
| DRAWN BY DJG | DATE 02-01-91 | DWG NO. CORR | CAD DWG NO. 023987 |



- MW-20A
- ⊕ Upper Aquifer Monitoring Well, Sampled
- ⊕ Upper Aquifer Monitoring Well
- ▲ Lower Aquifer Well, Sampled
- △ Lower Aquifer Well

Figure 1: Well Locations, Restover Truck Stop



PROJECT: Restover Truck Stop JOB # 12-116 BORING /WELL # WDOE-6AR PAGE 1 OF 1

Location: 2725 93rd Avenue Olympia, Washington Approximate Ground Surface Elevation*: 198' (WGS84 datum)

Subcontractor/Equipment: ESN Northwest/Power Probe 9630 Drilling Method: 4.25" - inch Inside Diameter Hollow Stem Auger

Date 4/17/2013 Logged By: Matt Wilson

| Depth (ft) | Soil Description | Unified Soil Symbol | Sample Type | Sample Recovery | Sample Number | Time | Blows/Foot | PID Reading (ppm) | Sheen | Monitoring Well |
|------------|---|---------------------|-------------|-----------------|---------------|------|------------|-------------------|----------|---|
| | Asphalt 4 inches. | | | | | | | | | |
| | Brown, dry to moist, medium dense, SAND with gravels to 2 1/2 feet bgs. | SP | | | N/A | 850 | N/A | 0 | not obs. | |
| | Brown, moist, medium dense, SAND (poorly graded) | | | | N/A | 900 | N/A | 0 | not obs. | |
| 5 | | | | | N/A | 900 | N/A | 0 | not obs. | |
| 10 | | | | | N/A | 905 | N/A | 0 | not obs. | |
| | | | | | N/A | 915 | N/A | 0 | not obs. | |
| | Brown saturated medium dense SAND (poorly graded) to 20 feet bgs. | ATD | | | | | | | | |
| | | SP | | | | | | | | |
| 15 | | | | | N/A | 915 | N/A | 0 | not obs. | |
| | | | | | N/A | 930 | N/A | 82 | not obs. | |
| 20 | | | | | | | | | | |
| | Total depth at 21 feet bgs. Overdrilled to 21 feet because of heaving. Groundwater encountered at 11 feet bgs, at time of drilling. Boring completed as monitoring well WDOE-6AR (Ecology Well ID Tag # BHK315) | | | | | | | | | 2" Schedule 40 PVC casing w/ 15' of 0.010" slotted screen |
| 25 | | | | | | | | | | |

Explanation

- | | | | | | |
|--|--|--|-----------------|---|----------------------|
| | 2-inch O.D. split spoon sample | | Monitoring Well | | Flush-mount Monument |
| | No Recovery | | Clean Sand | *Approximate Elevation from Google Earth Image 9/3/2011 | |
| | Contact located approximately | | Bentonite | | |
| | Groundwater level at time of drilling or date of measurement | | Grout/Concrete | | |
| | | | Screened Casing | | |
| | | | Blank Casing | | |

Chain of Custody Record

Libby Environmental, Inc.

4139 Libby Road NE
 Olympia, WA 98506
 Ph: 360-352-2110
 Fax: 360-352-4154

Client: AFG

Address: 605 11th AVE SE Suite 201, Olympia, WA

Phone: (360) 352-9835 Fax:

Client Project # 12-116

Date: 4/29/13

Page: 1 of 1

Project Manager: Mike Chen

Project Name: Restores Truck Stop

Location: 2725 93rd AVE SW City: Olympia, WA

Collector: Jeff Wilson Date of Collection: 4/29/13



| Sample Number | Depth | Time | Sample Type | Container Type | Field Notes |
|---------------|----------|--------------|--------------|----------------|-------------|
| 1 | <u>—</u> | <u>12:17</u> | <u>water</u> | <u>VOLs</u> | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |

| | | |
|---|---|---|
| Relinquished by: <u>[Signature]</u> Date / Time: <u>4/29 14:30</u> | Received by: <u>[Signature]</u> Date / Time: <u>4/29/13 2:30pm</u> | Remarks: <u>Standard S.A.T.</u> |
| Relinquished by: _____ Date / Time: _____ | | Sample Receipt: |
| Relinquished by: _____ Date / Time: _____ | | Good Condition? _____ Cold? _____ Seals Intact? _____ Total Number of Containers _____ |

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

RESTOVER TRUCK STOP PROJECT
AEG, LLC
Olympia, Washington
Libby Project # L130429-3
Client Project # 12-116

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260C) in Water

| Sample Number | Date Analyzed | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | Gasoline (µg/l) | Surrogate Recovery (%) |
|------------------------------|---------------|----------------|----------------|---------------------|----------------|-----------------|------------------------|
| Method Blank | 4/30/13 | nd | nd | nd | nd | nd | 106 |
| LCS | 4/30/13 | 98% | 94% | | | | 104 |
| WDOE-6ARW | 4/30/13 | nd | nd | 4.89 | 14.2 | 5900 | 104 |
| L130429-4 MS | 4/30/13 | 103% | 97% | | | | 108 |
| L130429-4 MSD | 4/30/13 | 104% | 94% | | | | 103 |
| Practical Quantitation Limit | | 1 | 2 | 1 | 2 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 65% TO 135%

ANALYSES PERFORMED BY: Kyle Williams

Libby Environmental, Inc. www.LibbyEnvironmental.com
 4139 Libby Road NE Ph: 360-352-2110
 Olympia, WA 98506 Fax: 360-352-4154
 Client: **AEG**
 Address: **605 14th AVE SE, Suite 201**
 City: **Olympia** State: **WA** Zip: **98501**
 Phone: **(360) 352-9835** Fax:
 Client Project # **12-116**

Chain of Custody Record

Date: **7/29/13** Page: **1** of **1**
 Project Manager: **Mike Chun**
 Project Name: **Restover Truck Stop**
 Location: **2725 93rd AVE SW** City, State: **Olympia, WA**
 Collector: **Jeff Wilson** Date of Collection: **7/29/13**
 Email: **jwilson@aeqwa.com**

| Sample Number | Depth | Time | Sample Type | Container Type | Field Notes |
|---------------|-------|-------|-------------|----------------|--|
| 1 | — | 11:01 | Water | VOAs | VOA 802/B VOA 802/B BTEX Only VOA 8260 NWTFH-CD NWTFH-GX NWTFH-DX NWTFH-DX EXL PAH 8270 PCBS 8082 MTCa 5 Metals |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |

Relinquished by: **Jeff Wilson** Date / Time: **7/29/13 14:45**
 Relinquished by: **John** Date / Time: **7/29/13 2:45 pm**
 Relinquished by: _____ Date / Time: _____
 Remarks: _____
 Sample Receipt: _____
 Good Condition? _____
 Cold? _____
 Seals Intact? _____
 Total Number of Containers: _____
 TAT: **24HR** **48HR** **5-DAY**
 Distribution: White - Lab, Yellow - File, Pink - Originator

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Libby Environmental, Inc.

4139 Libby Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@aol.com

RESTOVER TRUCK STOP PROJECT
AEG, LLC
Olympia, Washington
Libby Project # 1130729-3
Client Project # 12-116

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

| Sample Number | Date Analyzed | Benzene (µg/l) | Toluene (µg/l) | Ethylbenzene (µg/l) | Xylenes (µg/l) | Gasoline (µg/l) | Surrogate Recovery (%) |
|------------------------------|---------------|----------------|----------------|---------------------|----------------|-----------------|------------------------|
| Method Blank | 7/31/13 | nd | nd | nd | nd | nd | 85 |
| LCS | 7/31/13 | 66% | 80% | | | | 96 |
| WDOE-6ARW | 7/31/13 | 1.3 | 3.3 | 2.1 | 8.2 | 800 | 110 |
| L130726-1 MS | 7/31/13 | 94% | 69% | | | | 74 |
| Practical Quantitation Limit | | 1 | 2 | 1 | 3 | 100 | |

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deymar

APPENDIX-B
Site Photographs



ASSOCIATED
ENVIRONMENTAL
GROUP, LLC

SITE PHOTOGRAPHIC RECORD

Project No.: 12-118

Project Name: Restover Truck Stop Soil Excavation



Photo #1: *Excavating Soil at Location of Former Monitoring Well WDOE-6A (looking South)*



Photo #2: *Mixing ORC-A into the Backfill of the Excavation*



Photo #3: *Preparing the Excavation Area for Paving.(Looking Northwest)*



Photo #4: *Drilling New Monitoring Well WDOE-6AR (Looking Northeast)*



Photo #5: *Tubing and Barrel showing setup for Well Development*



Photo #6: *Completed Monitoring Well WDOE-6AR*

APPENDIX F



Division of Environmental Health Office of Drinking Water

Individual System View - RESTOVER TRUCK STOP - Water System Id - 71970

| Compliance Actions | | Operating Permits | | Operators | | Reports | | Water Use Efficiency | |
|----------------------------|------------------|------------------------|-----------|------------------------|----------------|----------------------------------|----|----------------------|--|
| General Information | | Source Information | | Samples | | Exceedances | | | |
| Source 01 - WELL #1 | | | | | | | | | |
| Source Status | Active | Usage | Permanent | WRIA | Upper Chehalis | Intertie Supplying System | NA | | |
| Type | Groundwater Well | Capacity (gpm) | | Township | 17 | Intertie Supplying Number | NA | | |
| Effective Date | 1/1/1970 | Treated | No | Range | 02W | | | | |
| Inactive Date | | Metered | Undefined | Section | 21 | | | | |
| DOE Well Tag Number | | Well Depth (ft) | 0 | Qtr/Qtr Section | NESW | | | | |

Records 1 - 1 of 1

Display as table with source treatment information

[Home Page](#) |
 [Find Water Systems](#) |
 [Find Water Quality](#) |
 [Downloads/Reports](#)

[DOH Home](#) |
 [Community and Environment](#) |
 [Drinking Water Home](#) |
 [Drinking Water Contacts](#)



WATER FACILITIES INVENTORY (WFI) FORM

ONE FORM PER SYSTEM

Quarter: 3

Updated: 04/23/2010

Printed: 11/8/2013

WFI Printed For: On-Demand

Submission Reason: No Change

RETURN TO: Southwest Regional Office, PO Box 47823, Olympia, WA, 98504

| 1. SYSTEM ID NO. | 2. SYSTEM NAME | 3. COUNTY | 4. GROUP | 5. TYPE |
|------------------|---------------------|-----------|----------|---------|
| 71970 8 | RESTOVER TRUCK STOP | THURSTON | A | TNC |

| | | | | |
|---|--|---|--|----------------------------------|
| 6. PRIMARY CONTACT NAME & MAILING ADDRESS DAYABIR (PINTU) S. BATH [OWNER] 2729 93RD AVE SW OLYMPIA, WA 98512 | | 7. OWNER NAME & MAILING ADDRESS DAYABIR (PINTU) S. BATH 2729 93RD AVE SW OLYMPIA, WA 98512 | | 8. Owner Number 029891 TITLE: |
| STREET ADDRESS IF DIFFERENT FROM ABOVE ATTN ADDRESS 2729 93RD AVE SW CITY OLYMPIA STATE WA ZIP 98512 | | STREET ADDRESS IF DIFFERENT FROM ATTN ADDRESS CITY STATE ZIP | | |

| 9. 24 HOUR PRIMARY CONTACT INFORMATION | 10. OWNER CONTACT INFORMATION |
|---|---|
| Primary Contact Daytime Phone: (360) 357-4701 | Owner Daytime Phone: (360) 357-4701 |
| Primary Contact Mobile/Cell Phone: (206) 669-4843 | Owner Mobile/Cell Phone: (206) 669-4843 |
| Primary Contact Evening Phone: (xxx) xxx-xxxx | Owner Evening Phone: (xxx) xxx-xxxx |
| Fax: (360) 956-1150 E-mail: XXXXXX | Owner Fax Phone: E-mail: XXXXXX |

WAC 246-290-420(9) requires that water systems provide 24-hour contact information for emergencies.

11. SATELLITE MANAGEMENT AGENCY - SMA (check only one)

Not applicable (Skip to #12)

Owned and Managed SMA NAME: _____ SMA Number: _____

Managed Only

Owned Only

12. WATER SYSTEM CHARACTERISTICS (mark all that apply)

| | | |
|---|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Hospital/Clinic | <input type="checkbox"/> Residential |
| <input checked="" type="checkbox"/> Commercial / Business | <input type="checkbox"/> Industrial | <input type="checkbox"/> School |
| <input type="checkbox"/> Day Care | <input type="checkbox"/> Licensed Residential Facility | <input type="checkbox"/> Temporary Farm Worker |
| <input checked="" type="checkbox"/> Food Service/Food Permit | <input checked="" type="checkbox"/> Lodging | <input type="checkbox"/> Other (church, fire station, etc.): _____ |
| <input type="checkbox"/> 1,000 or more person event for 2 or more days per year | <input type="checkbox"/> Recreational / RV Park | |

| 13. WATER SYSTEM OWNERSHIP (mark only one) | | | | 14. STORAGE CAPACITY (gallons) | |
|--|----------------------------------|--|---|--------------------------------|--|
| <input type="checkbox"/> Association | <input type="checkbox"/> County | <input checked="" type="checkbox"/> Investor | <input type="checkbox"/> Special District | 0 | |
| <input type="checkbox"/> City / Town | <input type="checkbox"/> Federal | <input type="checkbox"/> Private | <input type="checkbox"/> State | | |

| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----|-------------|----------|-----------------|-----|-----------|-------|----|----|-----------------|
| | SOURCE NAME | INTERTIE | SOURCE CATEGORY | USE | TREATMENT | DEPTH | | | SOURCE LOCATION |

WATER FACILITIES INVENTORY (WFI) FORM - Continued

| | | | | |
|--------------------------------|--|------------------------------|----------------------|-----------------------|
| 1. SYSTEM ID 71970 8 | 2. SYSTEM NAME RESTOVER TRUCK STOP | 3. COUNTY THURSTON | 4. GROUP A | 5. TYPE TNC |
|--------------------------------|--|------------------------------|----------------------|-----------------------|

| | ACTIVE SERVICE CONNECTIONS | DOH USE ONLY CALCULATED ACTIVE CONNECTIONS | DOH USE ONLY APPROVED CONNECTIONS |
|--|----------------------------|---|--------------------------------------|
| 25. SINGLE FAMILY RESIDENCES (How many of the following do you have?) | 0 | 0 | Unapproved |
| A. Full Time Single Family Residences (Occupied 180 days or more per year) | 0 | | |
| B. Part Time Single Family Residences (Occupied less than 180 days per year) | 0 | | |
| 26. MULTI-FAMILY RESIDENTIAL BUILDINGS (How many of the following do you have?) | | | |
| A. Apartment Buildings, condos, duplexes, barracks, doms | 0 | | |
| B. Full Time Residential Units in the Apartments, Condos, Duplexes, Doms that are occupied more than 180 days/year | 0 | | |
| C. Part Time Residential Units in the Apartments, Condos, Duplexes, Doms that are occupied less than 180 days/year | 0 | | |
| 27. NON-RESIDENTIAL CONNECTIONS (How many of the following do you have?) | | | |
| A. Recreational Services and/or Transient Accommodations (Campsites, RV sites, hotel/motel/overnight units) | 0 | 0 | |
| B. Institutional, Commercial/Business, School, Day Care, Industrial Services, etc. | 1 | 1 | |
| 28. TOTAL SERVICE CONNECTIONS | | 1 | |

| |
|--|
| 29. FULL-TIME RESIDENTIAL POPULATION |
| A. How many residents are served by this system 180 or more days per _____ 0 |

| 30. PART-TIME RESIDENTIAL POPULATION | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| A. How many part-time residents are present each month? | | | | | | | | | | | | |
| B. How many days per month are they present? | | | | | | | | | | | | |
| 31. TEMPORARY & TRANSIENT USERS | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| A. How many total visitors, attendees, travelers, campers, patients or customers have access to the water system each month? | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 | 9000 |
| B. How many days per month is water accessible to the public? | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 32. REGULAR NON-RESIDENTIAL USERS | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
| A. If you have schools, daycares, or businesses connected to your water system, how many students daycare children and/or employees are present each month? | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| B. How many days per month are they present? | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |

| 33. ROUTINE COLIFORM SCHEDULE | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

| | | | |
|---|-----------|----------|--------------------|
| 34. NITRATE SCHEDULE (One Sample per source by time period) | QUARTERLY | ANNUALLY | ONCE EVERY 3 YEARS |
| | | S01 | |



Pre - Adequacy Data Summary

As of: 11/8/2013

Page 1 of 2

Report Date: 11/8/2013

Administrative Data

"Mailing Information:"

RESTOVER TRUCK STOP , 71970

DAYABIR (PINTU) S BATH

(360) 357-4701

2729 93RD AVE SW

OLYMPIA, WA 98512

Last WFI Update:4/23/2010

Group.....: A

Type.....: TNC

DOH Region.....: Southwest

County.....: THURSTON

Connections:

Active Connections.....: 1

Approved Connections.: Unapproved

Ownership:

Owner Type.: Individual

Owner Name.: DAYABIR (PINTU) BATH



Pre - Adequacy Data Summary As of: 11/8/2013

Page 2 of 2
Report Date: 11/8/2013

Operating Permit Description

Current and Valid Operating Permit (Yes/No) - Yes

Permit Category Color.: Blue

DOH Recommendation:

Blue: Systems in this category are considered adequate for existing uses but are not considered adequate for adding new service connections.

Water Quality Violations

| Incident Date | Severity |
|---------------|----------|
|---------------|----------|

*** No Current Violation Found for Water System ***

Operator Certification Requirement

*** No Certified Operator Required ***

Water System Plan Requirement

Not Required

Compliance Actions

| Action | Status | Issue Date | Reason |
|--------|--------|------------|--------|
|--------|--------|------------|--------|

*** No Current Compliance Actions Found ***

Regional Staff Comments

Disclaimer

This is a DOH Pre - Adequacy Data Summary for this water system that is based on information available at this time. Other entities such as Local Building, Planning and Health Jurisdictions, or financial institutions have alternative authority to make final decisions involving development, building permits and financing.

APPENDIX G



Exhibit B Phase I Environmental Site Assessment Scope of Services

Phase I Environmental Site Assessments (Phase I ESA, also known as Level One ESA studies) are conducted to protect a property owner from assuming an unknown environmental risk. The assessment gathers available information regarding past or present site activities which have the potential to cause environmental contamination. Robinson Noble performs Phase I ESAs generally following the format and content of ASTM Standard E1527-05. Depending on the nature of the site being evaluated and the requirements of the Client, additional elements beyond the scope of the ASTM standard may be included. Any additional scope of service items are detailed in the professional services agreement (PSA) to which this scope of service is attached. If an item is not indicated herein or in the applicable PSA, it is not included in the Project.

The standard components of the Phase I ESA will include:

- Reasonably ascertainable identification of past and present site ownership and uses (as deemed relevant to evaluating the subject site).
- Inspection of the site and any structures for the presence of potentially hazardous substances. Any areas not inspected will be clearly noted in the project report.
- Description of site environmental characteristics; such as the size, layout, extent of development, natural features, etc.
- An assessment of hazardous substance or waste storage, handling, or disposal practices as they pertain to evaluate the presence of an actual, and/or material threat of, a hazardous substance release.
- An assessment of nearby properties whose activities may have an environmental impact on the subject property.
- Conclusions regarding potential problems and recommendations for further action.

For the purposes of the Phase I ESA scope of services, the term hazardous substance is as defined by ASTM Standard E1527-05 except with the inclusion of petroleum products.

In performing the assessment Robinson Noble, Inc. will utilize a review of reasonably ascertainable, selected available public records and historical research, an inspection of the site, and may conduct interviews with tenants, owners, and/or public agency officials to evaluate the potential environmental liabilities associated with a property.

Site Location

The Phase I ESA will be completed for the site located at 2729 93rd Avenue SW in Olympia, Washington.

Records Review

Review of public agency records can provide significant background information on the site, including ownership history; past uses; permits or inventories for hazardous materials or wastes; reported spills, releases or known contamination; or other regulatory actions. Agencies which may be contacted include local assessor's office, planning department, utility district, fire department, health department, agricultural commissioner, or air quality management district. State environmental protection agencies, such as the Washington State Department of Ecology, maintain databases of sites which have been investigated and may also be contacted. The U.S. Environmental Protection Agency also maintains databases of hazardous waste generators or sites with hazardous waste contamination. Robinson Noble, Inc. will search applicable data bases using a data extraction and reporting firm. We may also conduct a physical review of agency files as deemed necessary.

Historical Research

In order to review past use of the property, documents such as title history, maps, building permits, or aerial photographs may be reviewed as appropriate. Maps, such as parcel, topographic and fire-insurance maps, will also be reviewed as applicable. Only reasonably ascertainable sources will be used.

Site Inspection

A site inspection will be conducted to evaluate the subject for site activities or uses which pose a high potential for environmental contamination. These items include but are not limited to:

- storage tanks (underground and above ground)
- water wells (domestic, agricultural or industrial)
- waste water systems
- drums or chemical storage areas
- ponds or surface impoundments
- maintenance or shop areas
- sumps or storm drains
- stained soil or pavement
- transformers
- piles of waste or trash
- dead or dying vegetation
- unusual odors
- other observations that in the opinion of the field investigator indicate the possible presence of conditions of concern.

Interviews

In order to determine current and past site practices, interviews with persons familiar with the site may be conducted. This may be done in person, in writing or via telephone. Examples of the types of individuals that may be contacted include: property owners, site managers, former employees, neighbors, and/or local agency officials. Where interviews are deemed necessary, reasonable attempts will be made to conduct the interviews, though we cannot guarantee that interviews will be conducted. ASTM Standard E1527-05 requires that a reasonable attempt be made to interview representatives of current non-residential occupants, if five or less; or if more than five, all major occupants. Robinson Noble will make a reasonable attempt to interview occupants whose operations are likely to indicate recognized environmental conditions in connection to the subject property. However, unless specifically directed by the Client including agreement to pay extra compensation, Robinson Noble will not meet the standard for occupant interviews.

Report

The activities described above will be documented in a report. The report will present the findings of the assessment and any recommendations for further action, if necessary. Be advised that the Phase I ESA does not typically include the collection of environmental samples. Two hard copies and one digital copy of the report text, figures, and site photographs will be provided. Unless otherwise noted, appendices will only be provided digitally and included on the attached CD. Hard copies of the appendices or additional copies of the report will be provided at a cost of up to \$125 each.

Robinson Noble's services in relation to the Phase I ESA are intended for the Client's sole use and benefit. Except as agreed in writing, Robinson Noble's services and work product shall not be used or relied upon by any other person or entity other than the Client nor for any other purpose. Robinson Noble's services are limited to those expressly set forth above, and Robinson Noble has no other obligations or responsibilities for the Project except as agreed in writing. Robinson Noble has no responsibility for conditions that occur on or to the subject property following the completion of our field work at the subject property. Nor are we responsible for the acts or omissions of other parties working on the Project; our work on the Project shall not relieve other parties of their responsibility for performing their work in accordance with applicable plans, specifications, and regulations.



ROBINSONSM NOBLE

STATEMENT OF QUALIFICATIONS

Company Introduction

Robinson Noble is an environmental consulting firm providing earth science and engineering support for public, private, commercial, and industrial clients throughout Washington State and the Pacific Northwest. Drawing upon a highly-skilled team of licensed geologists, hydrogeologists, geotechnical engineers, and environmental scientists, our services are tailored to provide the desired level of assistance to help our clients achieve their project goals. Robinson Noble delivers a level of expertise and experience that belies our modest size and Small Business status. Senior personnel are actively involved in all project stages, providing excellent quality control. Our reputation for technical excellence reflects our clients' successes over the past 65 years.

We work with clients and counsel to develop cost-effective, legally-defensible solutions to complex technical and regulatory challenges. Our professional staff is detail-oriented and applies sound scientific and engineering principles to every project, large and small. We have extensive experience preparing planning documents, including work plans, field sampling plans, quality assurance/quality control (QA/QC) plans, and health & safety plans. Our targeted investigations and work protocols are specifically designed to yield accurate results, meet project planning goals, and move a project forward. Put simply, Robinson Noble has the experience, technical savvy, and key relationships to help our clients succeed.

Tacoma

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Tacoma, Washington 98409
253.475.7711

Woodinville

17625 130th Avenue NE, Suite 102
Woodinville, Washington 98072
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King County Small Contractor and
Supplier (SCS #1103)

Environmental Services

Robinson Noble is skilled in a wide range of environmental services that support the evaluation, remediation, and restoration of contaminated sites. We have extensive experience in evaluating hydrogeologic and geochemical conditions and water quality issues including metals and organics. Collectively, these capabilities are critical to evaluating potential adverse effects to the environment and to fate and transport considerations.

We routinely integrate and interpret environmental data in support of state and federal environmental programs, remedial investigations, and property transfer evaluations. We are well versed in environmental compliance and remediation alternatives and have established relationships with regulatory agencies.

Site Characterization and Remediation

Our scientists have characterized contaminated sites ranging in size from small build-

ing interiors to large brownfields redevelopments. Where complex contaminant issues are identified, we perform feasibility studies

to define and evaluate remedial alternatives under MTCA and CERCLA regulations. Our project deliverables clearly communicate the nature, extent, fate, distribution, and possible effects of contamination originating from the site. Once the contaminant source is identified, we can recommend source control actions to mitigate ongoing “re-contamination” from that source. We also have extensive experience in designing and implementing post-remediation environmental monitoring investigations to ensure the continuing effectiveness of the remedy.

Emergency Response Services

Robinson Noble maintains 24-hour call-out capability and have senior staff with direct experience responding to hazardous material emergencies. We have provided response management, scientific support, emergency planning and exposure assessments on an urgent basis. We maintain standing relationships with key regional response contractors, allowing us to quickly mobilize resources needed to quickly control and contain hazardous material releases.

Environmental Sampling

Robinson Noble has broad environmental sampling capabilities and experience including surface and subsurface soil and sediment sampling, groundwater sampling, and surface water sampling. We are adept in the use of hand augers and hand-operated power augers for near-surface soil sampling. When deeper target depths are required, we utilize direct-push, sonic, auger, air-rotary and/or cable-drilling techniques. We also maintain a wide-range of sampling and monitoring instruments in-house to support geologic, hydrogeologic, and environmental explorations.

Property Investigations

Robinson Noble produces high quality, due-diligence documents for a wide variety of clients including banks, developers, public agencies, industries, residential landowners, and tribes. Our Phase I Environmental Site Assessments (ESAs) are performed in compliance with All Appropriate Inquiry ASTM E 1527-05 guidance and represent a key foundation for property transfer decision-making. We also routinely perform asbestos, lead, and other inspection services.

In addition, our firm is recognized for performing environmental subsurface investigations and generating robust Phase II documents that resolve the contamination issue, help to pinpoint our client’s options for achieving regulatory compliance, and reduce the potential for environmental liability. We are particularly adept at interpreting environmental data, performing appropriate quality management measures, and developing critical conclusions and recommendations regarding the best course of action for a particular site.

Water Quality Services

Our experts have performed numerous evaluations of potential environmental issues associated with groundwater and surface water impacts related to industrial activities, including mining and rock quarry operations. We have evaluated seawater intrusion, metals contamination, and a wide range of water quality issues. Findings from our environmental investigations are routinely incorporated into NEPA/SEPA EIS documents, NPDES permits, and a wide range of other environmental and water quality-based permits.

Hydrogeologic Services

Historically, Robinson Noble’s services have been in hydrogeology and groundwater development, with an emphasis on the oversight of commercial well drilling projects and advanced applications of water well technology. Over the last 65 years, our experience in groundwater resource development and protection has enabled us to expand our services into many different aspects of groundwater and environmental sciences.

We provide scientific and technical services in the definition, development, and protection of groundwater resources for public and private use—its source and destiny, its quality and protection, and the methods for its recovery.

Groundwater Resource Development

Our firm brought scientific methods to the design, construction, and development of water wells in Washington State. This expertise greatly improved the success and quality of water resource identification and development projects. We have the most extensive water well drilling project experience of any hydrogeologic firm in the state. Robinson Noble has designed wells for nearly every drilling method, well application, and hydrogeologic setting in the Pacific Northwest. We provide drilling project management services, well design, construction planning, testing oversight, operations troubleshooting, and rehabilitation guidance.

Water Resource Management

Our groundwater resource management services include wellhead protection planning, groundwater availability studies, well and wellfield management, hydrostratigraphic unit definition, SEPA assistance, and related support services. Robinson Noble has been involved in Aquifer Storage and Recovery (ASR) projects, which allow the use of winter surplus water during the drier summer months, since the 1970s.

Groundwater flow models are another tool we provide to help water purveyors manage their resources efficiently. These models, which are often developed in coordination with other purveyors and private water users, can simulate how future activities or environmental conditions could change resource availability over time. We perform all levels of groundwater modeling, including analytical, analytic element, and numerical (MODFLOW) groundwater modeling. We have also provided assistance to the USGS in their regional modeling efforts.

We regularly work with a variety of agencies and stakeholder groups to develop regional

management strategies. By providing a high level of technical expertise, Robinson Noble facilitates the best data collection and hydrogeologic practices available, providing a high degree of confidence in the project outcome.

Water Resource Law & Permitting

The legal and regulatory issues of water use are some of the more complex aspects of a water resources project. Our extensive water rights experience and our long-term partnerships with many water law attorneys allow us to provide high-quality technical support to the water rights process. Our water law and resource permitting services include:

- assistance with initial applications/moving applications to permit status;
- consulting regarding Ecology's cost-reimbursement process;
- providing strategies for transfers;
- negotiating, developing, and implementing mitigation plans; and
- providing technical support for appeals.

Aggregate Mining Support

Robinson Noble provides technical consultation on virtually all aspects of aggregate operations including: site evaluation, resource estimation/valuation, SEPA/NEPA compliance, EIS technical support, land-use changes, stormwater and water-supply issues, mining and reclamation plans. We support land development, restoration, or environmental enhancement for mining operations by defining groundwater concerns and helping identify proper mitigation actions. We have a long history of helping gravel mining operators with water-related issues at both the public and private levels.

Geophysical Investigations

Robinson Noble provides a full suite of bore-hole geophysics and groundwater-related surface geophysics. These diagnostic tools can help refine our existing field data or regional knowledge and thus improve the chances of success for water resource or environmental projects. Our geophysical survey capabilities include:

- down-hole video inspection;
- resistivity, spontaneous potential, and natural gamma-ray logging;
- caliper, temperature, and plumbness/alignment surveys;
- electrical resistivity; and
- time-domain electromagnetic, seismic, and gravimetric analyses.

Geotechnical Services

Robinson Noble provides common-sense geotechnical engineering solutions and construction testing services. Our geotechnical engineers have engaged in nearly every facet of geotechnical engineering and soil mechanics with direct experience in soil mechanics, geotechnical feasibility and design, geologic hazard evaluation, field inspection, and soil testing. With first-hand experience in the construction field, our principal engineers also have the practical experience to provide cost-effective solutions to difficult problems and site conditions.

Geotechnical Engineering

Robinson Noble specializes in professional geotechnical and geologic consulting services. Our projects are completed under the direction of licensed geotechnical engineers, with support as needed from our hydrogeologists and environmental staff.

Our geotechnical services are typically solicited early in a project planning effort and often include an initial feasibility study of the project, subsurface investigations, plan reviews, and construction observation and testing. We also perform forensic investigations of slope and foundation failures, including groundwater intrusion into buildings, and litigation support for legal counsel on various projects and fact-finding investigations. Collectively, this experience informs our evaluations of subsequent projects and site conditions, allowing our clients to make more informed decisions about their projects.

In-House Geotechnical Laboratory

Robinson Noble maintains an in-house laboratory equipped to evaluate the properties and characteristics of soil, completed in accordance with ASTM standards. Properly describing the soil allows our engineers to scientifically analyze the planned improvements within the underlying soil and

groundwater conditions.

We commonly complete soil tests such as:

- Sieve and hydrometer analysis
- Moisture content and density
- Proctor tests
- Atterberg limits
- Sand equivalent
- Specific gravity and absorption
- Direct shear
- Consolidation
- Hydraulic conductivity/permeability

Construction Observation & Testing

Robinson Noble provides a wide range of construction-related services to verify contracted work is completed to project specifications. Earthworks are our specialty including soil compaction, site stripping, and foundation sub-grade preparation. We focus on good communication between our in-house personnel, the contractor, and the owner, which is key to a successful project.

Our staff has worked on a variety of project types: roadways, buildings, retaining walls, dams, and water and sewer lines. We also regularly provide services during slope repair/reconfiguration or habitat restoration work. Our services on these projects may include grading observations, soil moisture/density testing, foundation sub-grade evaluation, pile

and tieback evaluation, pile driving evaluation, daily report documentation, and erosion control, including turbidity and pH testing.

Landslides & Slope Stability

Our geotechnical engineers and geologists are specialists in the geologic hazards of the Puget Sound region. We have the expertise to recognize potential site issues and address them before they become construction problems.

We have a keen understanding of how potential geologic hazards can potentially impact existing and proposed projects. These hazards have been broadly identified on local jurisdictional maps, so reviewing agencies know to request a specific type of geologic or geotechnical study.

Some common evaluations include:

- **Landslide Hazards** in areas with documented past landslide activity or slope and subsurface conditions that could increase landslide risks.
- **Steep-Slope Hazards** in areas with a combination of steep inclination and vertical relief.
- **Seismic Hazards** in areas subject to soil instabilities or liquefaction during an earthquake, resulting in a sudden loss of bearing capacity.
- **Erosion Hazards** where the combination of slope, soil types, and vegetation coverage make an area particularly susceptible to erosion.

Selected Project Experience

Our experience ranges from simple projects to large-scale, multidisciplinary efforts involving personnel from one or more divisions including teaming partners, subcontractors, and regulatory agencies. The following projects reflect the broad range of services we offer. The key services provided are highlighted by color as follows:

 Geologic/Hydrogeologic  Environmental  Geotechnical



Windstar Apartments, Tacoma Housing Authority, Tacoma, Washington

Robinson Noble provided comprehensive environmental consulting services to address buried containers of paint waste present within a courtyard of an active apartment complex. Our initial involvement with the project identified the presence of the wastes, defined the quantity of impacted soil, and provided an evaluation of possible cleanup alternatives. As a temporary measure, a protective cap was placed over the waste pit and institutional controls, including groundwater monitoring, were implemented. Regulatory authorities requested that waste material needed to be removed following cap placement. Robinson Noble completed this removal action on time, under budget, and without complaint from

the residents. The site, which eventually received a no-further-action designation under Ecology's VCP program, is now administratively closed.



RI/FS and Phase I/II, Premera Blue Cross, Mountlake Terrace, Washington

Robinson Noble completed a due-diligence Phase I investigation of an industrial site in Mountlake Terrace and results disclosed the presence of a former painting and metal electroplating operation. To assess the potential impacts from these identified Recognized Environmental Conditions, we conducted a limited subsurface investigation. Results indicated a chlorinated solvent plume beneath the site. The client's compressed timeline required the investigation be expedited. In that time, we were able to

coordinate, schedule, permit, and direct the drilling of 35 boreholes and 10 monitoring wells, as well as complete a preliminary RI/FS. Our ability to characterize the extent of the chlorinated-solvent plume and provide projected planning level cleanup costs allowed the client to move quickly ahead with purchasing the property. A formal RI/FS, including a Terrestrial Ecological Evaluation (TEE), under MTCA has been submitted to Ecology and site remediation is under way.



Asian Counseling Center, Asian Counseling and Referral Services, Seattle, Washington

The project was located in an old fill area and extended up the adjacent slope into a City of Seattle designated Environmentally Critical Area. Our explorations found undocumented fill material that extended as much as 20 feet below the existing ground surface to the elevation of the planned underground parking garage. Our geotechnical engineers provided recommendations for design and construction of three types of wall systems including soldier pile, masonry block, and rockeries.



Asian Counseling Center, Seattle, Washington

Construction challenges included heavy groundwater seepage in excavation cuts and extremely moisture-sensitive soils at the base of the building excavation. We provided recommendations for drains to intercept seepage, which was much more economical than the dewatering system that was also considered.

Our engineers provided consultation to the design team throughout all phases of design and construction, including pre-construction design meetings with the contractor. Because of our involvement, the complicated geologic conditions were addressed with the necessary geotechnical improvements.



Proposed Biomass Energy Facility, Confidential Client, Mason County, Washington

Robinson Noble was selected to provide hydrogeologic and environmental evaluations of a proposed biomass-to-electricity project in Western Washington State due to our intimate knowledge of the hydrogeology and our experience in emergency prevention and response management. Our investigations focused on the potential impacts to groundwater resources and established appropriate engineering and institutional controls to minimize the risk of groundwater impact, including design criteria for product containment, material storage, fueling, and stormwater management. We also provided recommendations for emergency response actions, employee training, and facility monitoring.



Kingsgate Booster Pump Station and Reservoir, Woodinville Water District, Woodinville, Washington

The project will consist of a new booster pump station with back-up power. The flow control vault will be upgraded, a new dedicated tap and transmission line will be installed to bring water to the booster pump station, and upgrades to Pressure Reducing Value (PRV) No. 16 will be completed in the Kingsgate area. The project will provide additional fire suppression storage at the Kingsgate Reservoir and help to maintain pressures within the distribution system for the neighborhood.

We explored subsurface conditions with a truck-mounted drill rig. Soil samples obtained during the subsurface explorations were visually classified in our lab to confirm

or modify observations made in the field. Our findings and recommendations were presented in a geotechnical report.



Groundwater Development, Lakehaven Utility District, Federal Way, Washington

Since the mid-1960s, Robinson Noble has been the groundwater consultants to Lakehaven Utility District and its predecessors: Federal Way Water & Sewer and King County Water Districts 124, 100, and 64. During that time, we provided the hydrogeologic expertise for more than 50 drilling projects, regional aquifer definition, numerical modeling, wellhead protection, and the general application of hydrogeology to the District's groundwater resource development and management.

"They exceed my expectations. I have been here at the District for over 13 years; RN has been working with the District for more than 30 years. Their quality keeps going up ... "

*John Bowman
Lakehaven Utility District*

Robinson Noble hydrogeologists have provided the design of and supervised the drilling, construction, and testing of every production well used today by the District, as well as injection wells and numerous monitoring and test wells. We have used both cable-tool and rotary methods, drilled to depths over 1,000 feet, and tested wells at rates up to several thousand gallons per minute. Wells have been completed with casing sizes from 6 to 24 inches. We have also developed and supervised various well rehabilitation projects, as well as well decommissioning plans.


Foundation House Retirement Community, Foundation Partners, Bothell, Washington

Our services included geotechnical consultation and construction observation at a 120-unit, senior-living center. The site access road crosses a known deep-seated landslide

in low-strength silt soils. We prepared a design to improve the stability of the slope above and below the access road using soil-cement filled trenches. This cost-effective solution saved our client significant investment as conventional steel or concrete stabilization piles would have been much more costly.

In addition to the soil-cement filled slope stability trenches, earthwork for this project included fills of up to 15 feet. In some deep fill areas, strippings were placed under planned pavement areas where the risk of minor settlement was acceptable to the project owner. To achieve compaction specifications, a mixture of cement and kiln dust was mixed into the on-site soils, which had a high silt and moisture content.

Despite potential problems, the earthwork phase of the project proceeded fairly smoothly with the exception of rain delays and a minor failure in a vault excavation in the area of a known landslide. We immediately prepared a shoring design for the excavation in the failure area using concrete ecology blocks. The shoring was quickly installed by the contractor and the failure was halted.

 
Hydrogeologic and Biologic Evaluation Ellensburg Cement Products, Ellensburg, Washington

Ellensburg Cement Products filed an application to operate a gravel mine along the 500-year floodplain of the Yakima River. As part of the ongoing SEPA review process, Robinson Noble provided an evaluation of the shallow groundwater flow regime. In addition to the delineation of the physical parameters of this floodplain system, we were part of the multi-disciplinary consulting team that evaluated the potential for biologic and thermal impacts to the Yakima River as a result of the proposed mining. We created a monitoring well design that met the specific biologic sampling criteria of the riverine gravel setting. Essential to the project were the definition and evaluation of the

site's hydrogeologic conditions in relation to the regional valley system.



Upper Springbrook Creek Ecosystem Restoration, US Corps of Engineers, Renton, Washington

Upper Springbrook Creek, located in Renton, Washington, had shifted into a drainage ditch, and flow under the adjacent road was routed through a 30-inch corrugated metal pipe (CMP) that was not suitable for spawning salmon. This project included the replacement of the existing CMP pipe with a new, 10-foot-wide concrete box culvert.

As part of the Performance Systems, Inc. team, Robinson Noble's engineers were responsible for the geotechnical aspects of the project: determining the bearing capacity of the underlying soils and lateral pressure loads on the sides of the box culvert; evaluating the erosion potential within the site; providing seismic design parameters for structural design of the culvert; the control of groundwater; and excavation considerations, including recommended slope angles, estimated settlement potential, and structural fill recommendations. Subsurface soil investigations were accomplished with manual equipment, as heavy equipment was not permitted outside the road prism.



Robinson Noble provided additional construction observation services, including evaluation of the backfill around the culvert and preparation of the road subgrade. We also investigated soft soil conditions in the new creek channel alignment away from the

box culvert which were limiting construction equipment access. Finally, we provided our professional opinion on the new creek thread and the stability of the berms.



General Services Consulting, Lakewood Water District, Lakewood, Washington

Robinson Noble has been providing consulting services to Lakewood Water District since 1950, shortly after the District was formed. We have worked on or overseen the installation of all but one of the District's 43 well drilling projects including test/observation wells and potable supply wells ranging in size from 8 inches to 24 inches in diameter and depths to 1,075 feet. We have provided hydrogeologic expertise to the District to assist with everything from simple well operations/troubleshooting questions to complex regional flow modeling to resolve water rights issues.

"The District has been with RN for over 35 years. Last projects were water monitoring, salmon habitat impact analysis, and water rights. I was very happy with end products." "RN are very professional and thorough. "

*Randy Black
Lakewood Water District*

Our geotechnical engineers have recently completed an assessment of a new water main alignment as the District plans for future sources. With help from our environmental staff, we are currently completing an update of the District's wellhead protection plan. On an annual basis, we assist the District with analysis and reporting of data from a monitoring program covering 23 wells and all four of the aquifer systems used by the District as part of a Department of Ecology reporting requirement. Additionally, Robinson Noble recently represented the District (along with several neighboring regional water purveyors) in a major USGS groundwater modeling effort, providing District data relevant to the process and ensuring that

the project outcome adequately represents our (and the District's) understanding of the water resources system in the area.

Foss Site One Brownfields Redevelopment, Confidential Client, Tacoma, Washington Robinson Noble was selected as part of a team comprised of members in the fields of engineering, architecture, geotechnical, consulting, commercial brokers, and lending institutions paving the way for a major development on the Foss Waterway Development Authority site.

Our responsibilities for this multi-million dollar project included: the preparation and submittal of a draft work plan to Ecology; revision and submittal of a final work plan approved by Ecology; finalizing remedial action costs and schedules; conducting construction-related soil excavation oversight; and soil characterization and documentation. In all, 20,000 tons of soil, concrete remnants, pier caps, and wood pilings were excavated and properly disposed of. The project was completed on time and under budget.



Foss Site One, Tacoma, Washington

Co-Generation Facility EFSEC Application, Sumas Energy 2, Inc., Whatcom County, Washington

Sumas Energy 2 proposed to construct a co-generation power plant in the City's industrial area and requested site certification from the Washington Energy Facility Site Evaluation Council (EFSEC) and the Canadian National Energy Board (NEB). Robinson Noble provided hydrogeologic evaluations of

the site, the City's water sources (and supporting water rights), and potential impacts to surrounding community wells. Our work included well testing, a water rights/water use analysis, local and regional hydrostratigraphic analysis, wetland/drainage issues, well impact analyses, and input to an Environmental Impact Statement and a Site Certification Application. We then provided expert testimony in the EFSEC hearings. After review of the revised application, EFSEC unanimously recommended approval of the project, due in particular to the extra effort the proponent committed to provide.

Salmon Bay Marine Center, West Water Development, Inc., Seattle, Washington Salmon Bay Marine Center, with 13 side-by-side dock slips on the south shore of Salmon Bay, is considered the largest super yacht only facility on the West Coast. The site was previously the home of the Marco Shipyard and has been redeveloped extensively.

The site is underlain by loose fill placed many years ago above the native silt soils. A large diameter sewer pipe traverses the site and crosses Salmon Bay. Two of the new buildings are constructed close to this pipe.



Salmon Bay Marine Center, Seattle, Washington

We completed subsurface explorations at the site and consulted with the owner and structural engineer to determine the optimal foundation system for the site structures. Auger-cast piles were selected to support the buildings, and we analyzed the pile's capacity to resist lateral seismic loading and the deflections that would result. We also provided seismic consultation concern-

ing the existing bulkhead. Steel pipe piles provide lateral support to the new offshore floating piers. We analyzed the required pipe embedment, lateral load capacity, and resulting lateral deflection. Robinson Noble geotechnical engineers provided observation and consultation services during pile installation and during project earthwork construction.



Various Emergency Repair and Stabilization Projects, City of Lake Stevens, Washington

We have provided geotechnical services, as needed, to the City of Lake Stevens. In two of the cases, immediate response was requested in which we were on site the next day.

Outfall Creek from Lake Stevens: The Neopolis restaurant spans the outfall creek from Lake Stevens and is founded on a combination of piers and shallow foundations. An embankment failure extended out from under the building and undermined the sidewalk. We provided an evaluation of the immediate risk to the structure and also provided recommendations for repair of the bank and re-supporting the sidewalk.

Catherine Creek: An embankment adjacent to Catherine Creek has slumped, causing a failure of the roadway. The stream turns sharply at this location before crossing under a bridge. The area of distress is adjacent to the bridge abutment, is approximately 40 feet long, and extends into the western travel lane approximately five feet. We provided an MSE slope embankment design to restabilize the embankment. Our design also provided protection from scour and erosion of the embankment using a combination of geo-grid, coir cloth, and plantings. We have also provided a design to reduce ongoing scour of an eastern abutment of the bridge.

Emergency Road Repair: A plugged drain system on the upside of the road caused

water to flow over Lake Stevens Road into the slide area. This eventually caused a flow failure, leaving a scarp about 10 feet in height. Our engineers evaluated the conditions and provided consultation during repair. Our consultation also included identification of stable soils, recommendations for benching into those soils, and groundwater cutoff and drainage recommendations.



Seattle Fire Station 35, Rice Fergus Miller Architects, Snohomish County, Washington

The project consists of a new fire station building and associated driveways. Our engineers completed an investigation to evaluate the soil and groundwater conditions at the site, to develop geotechnical engineering recommendations for use in the design of specific construction elements, and to provide criteria for site preparation and construction of the new fire station structures. We encountered fill soils to an approximate depth of five feet overlying loose to medium dense weathered soils. These conditions required specific foundation recommendations. We also completed pavement sections and construction consultation and testing services, including verification of foundation bearing conditions.



Long-Term Groundwater Monitoring, Olympic Water and Sewer, Inc., Jefferson County, Washington

In an effort to assess the long-term condition of the aquifers in the Port Ludlow area, Olympic Water and Sewer (OWSI), with the assistance of Robinson Noble, established and continues to maintain an extensive groundwater monitoring network. The program was initiated in 1994 and has been assessed on an annual basis since inception. The network monitors the three primary aquifers in the Port Ludlow area and currently consists of 17 wells owned and maintained by 8 separate participants (both public and private). Parameters monitored

included static water levels, pumping water levels, production volumes, conductivity and chloride concentrations, and rainfall. Hydrologic and water quality information gained through this endeavor provides an excellent basis for the OWSI's water resource management program and currently represents one of the more extensive water resource data sets in Jefferson County.

"RN are very professional and thorough."
Larry Smith
Olympic Water & Sewer, Inc.



Spill Characterization and Remediation, Tacoma Public Utilities – Tacoma Rail, Tacoma, Washington

Robinson Noble was retained to conduct characterization, remedial design, and management of a locomotive oil spill in a commercial/residential area of Tacoma, Washington. The project involved conducting an initial characterization of the extent of possible contaminant impacts to soils adjacent to the rail line, preparation of a characterization report for agency review, remedial design and evaluation of alternatives, coordination of remedial contractors, management/oversight of remedial activities, and preparation of a final report. Robinson Noble staff was responsible for sampling activities as well as directing site security and coordinating project activities around rail line operation schedules.



Perrigo Park, Bruce Dees Landscape Architects, Redmond, Washington

This park is mainly an active recreation park with two full-scale soccer and baseball fields and also includes tennis courts, volleyball sand court picnic area and tot play area. During design of the park, we were retained to provide a ground water mounding analysis for the storm water infiltration system design.

Robinson Noble was also retained for Phase

II of the project, which will add approximately 2.7 acres to the existing Perrigo Park facility. The new phase involves multiple projects: the demolition of an old residential structure; remodeling an old barn into a maintenance facility; reconfiguring the entrance; providing new play areas, 47 new parking spaces, and three new picnic shelters; and extensive landscaping and natural area enhancement.



Perrigo Park, Redmond, Washington

Our engineers evaluated the infiltration capabilities for Phase II, performed subsurface explorations in the vicinity of planned retaining walls, and provided recommendations for potential over-excavations and foundation support of the planned walls. Infiltration areas for this Phase were difficult to find due to high groundwater sources. We also provided on-going consultation regarding design constraints imposed by the King County Manual and the City of Redmond Wellhead Protection Program, resulting in a dual stormwater system design using both detention and retention/infiltration. The infiltration facility was modeled using the computer program MODRET in order to evaluate the mounding effects below the facility.



Pre-Remedial Residential Soil Sampling, ASARCO, Inc., Tacoma, Washington

Robinson Noble conducted the pre-remedial soil sampling of approximately 600 residential properties as part of ongoing residential area remedial activities associated with the ASARCO Tacoma Smelter Superfund (NPL) site. The sampling was conducted to identify

residential lots requiring remediation based on remedial action limits established in the Record of Decision for the NPL site.

This project was conducted over a five-month period in the summer of 2004 and again in 2005. Due to the scope and magnitude of the project, the project required the temporary hiring of a field crew of four plus a crew leader. A Robinson Noble project manager provided oversight for the entire crew.

The scope of work included coordination and scheduling with individual property owners; government and private utilities, and ASARCO, Inc.; maintenance of an electronic database to coordinate the site visits; and collection of hand-augered soil samples from various depths at each residential property. The project ultimately required the sampling of approximately 2,000 mapped subunits and the collection of nearly 14,000 soil samples. With the dedicated field crew, we completed the project ahead of schedule and within budget.



Garden Grove Mixed-Use Development, Mietzner Group, Everett, Washington

Garden Grove is a mixed-use commercial development consisting of a senior-living center, an office building, and a large self-storage facility. Subsurface conditions at the site included bedded silts, glacial till, perched groundwater, loose fill, and buried topsoil. Construction on the buried topsoil and fill would result in loss of bearing capacity and unacceptable settlement of the structures. A combination of foundation alternatives were used to support the buildings and roadways. Some areas were over-excavated down to bearing soils and others were supported with a deep-foundation system consisting of concrete drilled piers.

These mitigation measures allowed the project to succeed in difficult conditions. Because our explorations identified difficult soil conditions early in the project planning, many of these conditions were easily incor-

porated into the planned development. Our engineers provided design recommendations for ecology block walls and rockeries, groundwater estimates collected by footing drains for storm pond design, geotechnical construction observation, and testing services.



Rattlesnake Mountain Communications Tower, PTS and Integrated Systems Group, King County, Washington

Located near the summit of Rattlesnake Mountain near Snoqualmie, this 3-legged, 275-foot-tall, steel-lattice communications tower was initially planned to be founded on three 8-foot-diameter drilled shafts which were to extend 50 feet into the underlying highly-weathered bedrock. We explored the subsurface conditions by drilling three borings to depths of up to 44 feet and then conducted a vertical capacity analysis and provided capacities for various-sized drilled shafts. Our analysis and resulting recommendations enabled the tower to be founded on substantially less expensive, 6-foot-diameter, 37-foot-deep drilled shafts. We also observed and documented the installation of the drilled shafts.



First Place School, Catholic Housing Services, Seattle, Washington

Robinson Noble engineers completed a geotechnical design for the three-story multi-family residential structure with underground parking and other improvements. The planned project will extend about 15 feet below the existing grade. The critical design element of the project will be the temporary excavation cuts or required shoring system. To compound the excavation issues, there is one multi-family residential structure approximately two feet from one of the property lines. Our geotechnical investigation was organized and completed to address these project impacts.

We provided shoring options consisting of soil nailing and soldier pile walls to laterally brace the excavation cuts and adjacent

structures. Design parameters and potential difficulties with installation were provided for both options.



Urgent Response, Characterization, and Remediation of an Intentional Release to an Existing Monitoring Well, Confidential Client, King County, Washington

While conducting routine groundwater monitoring activities for a client as part of a VCP monitoring effort, a previously “clean” monitoring well was found to contain non-aqueous phase liquids (NAPL) contamination. Subsequent investigation yielded visual and physical evidence that an unknown material had been intentionally dumped into the well.

Initial response efforts included careful documentation of the release including chemical profiling, fingerprinting, and collection of samples for possible future evidentiary analysis. During NAPL recovery actions, contaminant transport modeling was conducted to determine contaminant plume boundaries and appropriate groundwater remediation methods. Subsequent soil and groundwater sampling provided data required to design a remedial strategy using oxygenation compounds to stimulate biodegradation of contaminants. An enhanced groundwater monitoring network was also placed, and site remediation is ongoing.



On-Call Environmental and Emergency Services, Tacoma Public Utilities, Tacoma, Washington

Robinson Noble, Inc. serves as the prime contractor and professional services provider for the Tacoma Public Utilities. This competitive contract is utilized for a variety of environmental consulting and environmental services activities.

The range of services for over 250 work orders under this contract have included leaking transformer cleanups, Phase I Environmental Site Assessments, remedial investigations for soil and groundwater

contamination, regulatory negotiation, emergency response management, and TSCA (PCB investigations and corrective actions).

Notable projects under this contract include an assessment of Fort Lewis Central Substation located within JBLM (Joint Base Lewis McChord) military installation. The assessment consisted of sampling a concrete pad, salt wells, and adjacent soils for the presence of PCBs related to the historic operation of a large capacitor bank. Our initial assessment was used to provide bid level documentation of the estimated impacted concrete and soils to be removed during the subsequent removal of the capacitor bank and concrete pad. The project successfully identified impacted areas of both concrete and soil, requiring specialized removal and disposal of federal regulated wastes. Subsequent to the investigation, we prepared and received EPA approval of a cleanup sampling and analysis plan to complete a TSCA alternate risk-based cleanup of PCB contaminated materials and soil. Following EPA approval of the cleanup plan, we conducted management and oversight of the cleanup contractor and performed post cleanup confirmation sampling.

Other notable projects included completing a remedial investigation and clean up of residual contamination from a 50,000 gallon bunker oil tank failure and fire, and the evaluation of soil and surface water contamination from an open dump bordering on aquatic habitat being acquired by the utility.



Discovery Park/Fort Lawton Sewer Extension, Pacific Northwest Communities, LLC (Forest City), Seattle, Washington

Discovery Park is built on the historic grounds of Fort Lawton, an Army base established in the early 1900s. This project consists of upgrading the sewer and water systems to historic buildings. One of the unique features of the project is the sewer line being reinstalled with clay piping, similar to historic times.

Our engineers explored subsurface conditions in the area of the utility alignment and provided recommendations for site development. We also provided construction testing and consultation services for the construction phase of the project.



SWPPP, Sampling Design, and Program Mgt., NW Forest Products, Tacoma, Washington

Since 1994, Robinson Noble has provided diverse environmental services to this wood products manufacturer including stormwater pollution prevention program (SWPPP) development, as well as preparation, revision, and implementation of SWPPP documents. We have also completed an inspection of possible sources of zinc in the stormwater. We also trained personnel and coordinated corrective action responses and third-party inspections. We have also provided this client with technical assistance and litigation support in response to Clean Water Act civil actions.

“Since 1994, Robinson Noble, Inc. has helped us navigate the complex and frustrating environmental regulatory arena. From stormwater to general environmental issues, they have consistently provided candid professional advice tailored to meet the needs of our business. Although we are not their largest client, they treat us like we are.”

*Terry Swanson,
Northwest Forest Products*



Barton Pump Station, King County Wastewater Treatment Division, Seattle, Washington

King County Wastewater Treatment Division (WTD) plans a renovation of their Barton Pump Station, located adjacent to the Fauntleroy Ferry Dock in West Seattle. This sewer pump station has been in place since the 1950s and needs to be enlarged and updated.

Our engineers explored subsurface conditions and provided geotechnical design and construction consultation. The project requires excavation 30 feet below the ground surface and 20 feet below the water table, next to the existing pump station and ferry terminal. The excavation will be only one foot away from large diameter pipes that will be in use during construction. Soft soils are believed to exist below the adjacent ferry terminal, which could settle during site dewatering and result in distress to ferry operations.



Barton Pump Station, Seattle, Washington

The trench lines containing the large diameter pipes have a potential for routing groundwater into the pump station area. We have installed monitoring wells with electronic instrumentation to continuously measure groundwater levels through the winter. This data will allow us to evaluate whether surges in groundwater levels occur during or following rainfall events.

We worked closely with the project structural engineer to provide solutions to project issues. We have coordinated our field work and design recommendations with project stakeholders including Seattle Department of Transportation, Washington State Ferries, and King County WTD.



General Environmental Services, Muckleshoot Indian Tribe, Auburn, Washington

Robinson Noble is currently serving as the primary environmental consultant for the Muckleshoot Indian Tribe. Individual work

orders have recently included approximately 60 projects, including Phase I and II ESAs, Environmental Assessments for fee-to-trust transfers, and sediment sampling. Property types for these projects have ranged from industrial/commercial to residential.



West Point Treatment Plant Annex Building, King County Wastewater Treatment Division, Seattle, Washington

The West Point Treatment Plant, serving 1.5 million people in greater Seattle, is located about four miles northwest of downtown Seattle. The current staff at the plant is housed in left-over construction trailers that do not meet current code requirements. The planned improvements will provide additional code-compliant office space for the personnel at the treatment plant.

Our services consisted of evaluating the existing geotechnical documentation in the area of the Annex Building. We evaluated many geotechnical borings and reviewed the design parameters for the adjacent Administration Building. The site is capped with approximately 17 feet of fill over soft soil deposits consisting of silts and organics. These conditions resulted in the recommendations that the existing two-story Administration Building be built on deep piles extending to the bearing soils. The costs associated with installing a pile foundation under the one-story modular Annex Building, however, exceeded the building cost.

We provided settlement estimates for the Annex Building for different foundation alternatives which allowed the designers to evaluate risk. The result was to found the structure on shallow foundations and design for some anticipated settlement.



Directional Drilling Sewer Bypass, Northshore Utility District, Bothell, Washington

Robinson Noble evaluated the existing sewer alignment and provided a risk assessment of the existing surficial system to the District. We also reviewed existing

geotechnical explorations in the near vicinity that identified fracture zones as deep as 80 to 100 feet below the surface. The depth of these fractures indicates that this may be a deep seated landslide; review of documents indicates the deep-seated slide is believed to be an ancient slide associated with the undercutting of the slope toe during the retreat of the Vashon Glacier.

The results of the study indicated that installing a directional drilled line below the landslide mass as preferred. The District authorized us to complete a more in-depth study of a potential by-pass line, which will be approximately 1,000 feet in length and will extend to over 100 feet below the ground surface. The proposed bypass is being considered to reduce the risk that a landslide will affect the sewer system.

We explored subsurface conditions and completed laboratory testing to characterize these conditions. Groundwater levels were recorded during our explorations and we reviewed existing information that was documented for nearby explorations.



Lake Gaging, Lakewood Water District, Lakewood, Washington

Many lakes in Lakewood Water District's service area have been identified as surface expressions of the area's groundwater aquifers. However, few had ever been systematically measured. To better understand lake response to regional precipitation and interpret shallow aquifer response to lake water level changes, it was necessary to develop a long-term understanding of the changes in lake levels. In particular, the District hoped to identify means of using the lake level responses to help properly manage its shallow groundwater withdrawals. To accomplish this, a series of gages were installed on five local lakes and two streams. Monthly water level measurements have been collected by Robinson Noble, District personnel, and citizen volunteers (in cooperation with the Pierce County Stream Team) since 1999. The District uses the generated data as part of

its aquifer management program and as a regional data source for watershed planning.

■
Lake Hills Village, Cosmos Development Company, Bellevue, Washington

Cosmos Development Company has completed Phase I of the new Lake Hills Village mixed-use development. Our services included the geotechnical consultation during the final portions of the design of Phase I and construction observation and testing. Some complications occurred during construction when a perched water table and some unsuitable soils were encountered during construction. These conditions were mitigated by providing options to the owner. A detailed collection drainage system was designed and constructed for the project. We also provided design pressures for a temporary soldier pile wall to support two mobile phone towers.



Lake Hills Village, Bellevue, Washington

■
Assessment & Monitoring Program, Firgrove Mutual, Puyallup, Washington

Robinson Noble conducted a year-long hydrogeologic assessment of the Firgrove Mutual Water Company's well system. The Firgrove area (adjacent to the South Hill area of Puyallup) is one of the fastest developing areas in the State and is surrounded by a number of other large water purveyors, all reliant on the same aquifer systems.

The Mutual has a system consisting of 23 individual production wells, each completed in one of three separate aquifer systems

within an approximately 12-square mile service area. Our initial assessment of the condition of the Mutual's water resources was based on an analysis of manual data collected by the Mutual over the past decade and our experience in assisting the Mutual in installing most of their production wells. Although no major deficiencies were noted, the need to upgrade the Mutual's data collection system was clear. Since early 2001, Robinson Noble has been assisting the Mutual with a program to install electronic data-logging equipment at each of the system wells. The program included complete instrumentation of the well system over a period of five years with eventual inclusion of a telemetry system, training the Mutual's personnel in the operation of all equipment, and on-going periodic assessments of the electronic data by Robinson Noble. We also prepared a drilling strategy plan for the Mutual to use in their long-term water resource development and protection planning.

"Every project has gone well with Robinson Noble. We haven't had a need to contact other hydrogeology firms; we call RN because of their reliability, consistency and expertise.

*Steve Wieneke, former Manager,
Firgrove Mutual Water Company*

■
US 395, ACF West, Inc (WSDOT), Spokane, Washington

The North Spokane Corridor (NSC), a 60-mph, limited access highway with a direct connection to I-90, US 2, and US 395, is one of the larger Washington State Department of Transportation (WSDOT) projects during recent years. We completed shop drawings for over 40 of the bridge abutments on this project. Our engineers reviewed designs and created specification drawings for the contractor to construct the earth reinforcing walls, which ranged in height from a few feet to over 40 feet. Our drawings and specifications were reviewed and approved by WSDOT prior to construction.



Howanut Road Realignment, DCI Engineers, Oakville, Washington

The project consists of the realignment of an approximately 1.10 mile stretch of Howanut Road, located within the Chehalis Indian Reservation. The roadway was realigned to shift the roadway away from a steep slope adjacent to an existing creek. The road realignment is to take place approximately 20 feet from the steep slope and will increase the radius of two 90 degree curves. Our engineers evaluated subsurface conditions and provided pavement recommendations for the project.



Brownfields Assessments, Tacoma-Pierce Co. Health Department, Tacoma, Washington

Robinson Noble completed Phase I and Phase II ESAs and performed Ecology VCP process management for the Brownfields Pilot Project for former gasoline station sites. The project included preparation of QAPP and SAP documents for EPA review and approval. The goal of this project is to assist property owners in removing barriers to redevelopment posed by past property use as a gasoline station.



Water Rights Assessment & Groundwater Development, Highline Water District, Kent, Washington

Robinson Noble was commissioned to perform an investigation of the District's service area to evaluate both the potential for development of potable groundwater resources and an evaluation of the water rights controlled by the District. The study area covered approximately 40 square miles and underlies the metropolitan areas of SeaTac, Des Moines, and Federal Way. Our study indicated excellent opportunities for the use of the District's water rights and the significant potential for the development of

groundwater resources. The assessment also addressed the potential for the hydrogeologic system to function in an Aquifer Storage and Recovery scenario as well as the potential impacts to the groundwater system from the development of a third runway at SeaTac Airport. Following the assessment, the District, assisted by Robinson Noble, has undertaken the drilling of several test wells to define the specific quantity and quality parameters of the groundwater systems defined by the study.



53rd Street Pump Station, King County Metro, Seattle, Washington

Robinson Noble engineers were retained to conduct subsurface explorations and provide shoring recommendations for a new pipe access port. Subsurface conditions were explored by advancing a 6-inch diameter plastic casing down 16 feet by use of hand-operated augering equipment. Groundwater and peat was observed near the invert elevation of the planned pipe. Ultimately, steel sheets were driven into the peat to greatly reduce the presence of groundwater within the excavation during construction.



53rd Street Pump Station, Seattle, Washington

What Sets Robinson Noble Apart

At Robinson Noble, we take pride in our attention to detail and dedication to provide quality services to our valued clients. The following sections provide an overview of our philosophy related to project management, quality assurance, cost control, and our unwavering commitment to client satisfaction that has allowed us to flourish for over 65 years in the Pacific Northwest.

Project Management

All Robinson Noble staff are cross-trained within the company's specialized service areas in order to provide the maximum flexibility in meeting our client's needs. We approach each project as one requiring the expertise of our senior staff but temper that by assigning the right mix of associate and project staff to ensure we meet the project scope, while remaining within our stated cost estimate. This also allows us to apply the expertise of specific staff on an as-needed basis in order to troubleshoot problems, resolve complex questions, or address unexpected conditions. Project management focuses on meeting project schedules and budgets and maintaining close communications with our clients. Regular communications are accomplished via email and phone consultations. Conferences or meetings occur as defined by each project scope or as needed, based upon the client's needs.

Each project is assigned a project manager based on the scope of work to be accomplished and the project location. Particular staff expertise is selected based on project team approach—assigning staff that can remain with the project from start to finish. All projects are coordinated and overseen by our company president and senior management staff, providing quality control and assurance as well as technical (peer) review of our project reports and correspondence.

Quality Management Program

Robinson Noble is dedicated to providing quality services and technically-savvy solutions to our client's needs. The best way to ensure that our products meet clients' high standards is to continually self-check our performance through a rigorous quality management program. For most contracts, our company president Joe Becker serves

as the quality management lead. The quality manager is responsible for providing that all products meet our internal quality standards and the contract requirements. For each assigned project, the quality management group will:

- Establish a clear understanding of the project scope and the contracted services;
- Communicate the projected work schedule and milestones;
- Assign appropriate staff to fulfill the technical and support needs of the project;
- Manage project progress and personnel based on our established communication and cost control procedures;
- Review technical products for content, accuracy, consistency, formatting, and technique according to industry standards and the requirements of the scope of work;
- Provide draft products for review and comment;
- Ensure final products fully account for any recommended comments or changes; and,
- Provide that each product or deliverable has an assigned responsible professional from the quality management team available for follow-up questions or concerns.

We take quality management extremely seriously at Robinson Noble. In a blind survey of client satisfaction, more than 80% of Robinson Noble's clients indicated that Robinson Noble "exceeded expectations" in response to the question, "Compared to others in their profession, how completely has this firm provided work of appropriate quality?" Nearly half of all respondents to this question characterized Robinson Noble's work as "excellent."

Cost Control

As a normal part of our management procedures, all Robinson Noble project managers perform weekly and monthly accounting reviews of their assigned projects. All contracts are also reviewed monthly by the Principal-in-charge. This is to ensure full integration of our individual tasks into the invoicing and provide the client a clear accounting of the work performed in each billing period.

Successful Project Completion

Robinson Noble typically gives not-to-exceed budget estimates for projects. Change orders are not requested unless a change in conditions is encountered. In 2011-2012, out of \$5.1 million of work, approximately 2.8% was given out in not-to-exceed credits. Most projects completed by the company have flexible schedules; however, some

require a very short turnaround. Phase I Assessments, for example, are typically scheduled for completion in 15 or 20 days or a more expedited completion due to a rapidly approaching closing date for the subject property.

We routinely complete many of our projects within 30 days of authorization and can assemble a variety of personnel combinations to insure that projects are staffed to meet deadlines, goals, and budgets. With a full staff of 19, Robinson Noble can quickly respond to work requests. With our offices in Tacoma, Woodinville, and Bainbridge Island, our scientists can be on site in any part of Western Washington within several hours. Our close and long-standing working relationships with our contracting partners often allow us to move our projects to the "head of the line."

Company Personnel

Robinson Noble's staff includes geologists and hydrogeologists, geotechnical engineers, environmental scientists, and administrative staff. Our key personnel have ten to over 40 years' experience and are registered professionals in Washington, Oregon, Idaho, Montana, Alaska, California, and Virginia. All of our professional staff have college degrees in geology, hydrogeology, engineering, microbiology, or environmental science and most have advanced degrees. Selected staff members are listed below. Full-page resumes are available upon request.

Joseph E. Becker, LHG, PG, RPG

Joe serves as President, General Manager, and Principal Hydrogeologist of Robinson Noble. Joe is responsible for the development of several complex numerical computer models to assist in the evaluation and understanding of groundwater flow parameters and wellhead protection programs. These models not only served to solve immediate problems for our clients, but have also been utilized as planning tools to assist them in the current and future evaluation, development, and protection of their groundwater resources. A Licensed Hydrogeologist in Washington and Professional Geologist in California and Idaho, Joe is also highly experienced at conducting hydrogeologic assessments and fulfilling regulatory needs for groundwater studies. He has par-

ticular experience in providing the hydrogeologic investigations necessary to locate and design wastewater infiltration facilities, having completed such work for King County METRO, LOTT, and others. With more than 25 years of experience as a hydrogeologist, Joe provides oversight and QA/QC functions for most of Robinson Noble's hydrogeologic and environmental projects.

Burt G. Clothier, LHG, RG, CWRE

Burt is a Principal Hydrogeologist with Robinson Noble and the Company's Hydrogeologic Services Division Manager. His specialties include regional water resource evaluations, water rights technical support, and expert witness services. Burt is a Licensed Hydrogeologist in Washington, a Registered Geologist in Oregon, and a

Certified Professional Geologist in Alaska. He is also a Certified Water Rights Examiner (CWRE) and one of Robinson Noble's water rights permit writers, performing all aspects of water rights work under contract to the Department of Ecology. With over 23 years of professional experience, Burt has both investigated and managed water resource projects throughout the state, with a special emphasis on Pierce County. He provided technical expertise to the U.S. Geological Survey's multi-year characterization and modeling of the Chambers-Clover Creek watershed, culminating in co-authorship of two USGS publications. He is currently serving a second term on the Department of Ecology's Well Drilling Technical Advisory Group, providing input and oversight of well-drilling industry regulations in Washington.

John F. Hildenbrand

John is an Associate Environmental Scientist for Robinson Noble and manages our Environmental Services Division. His expertise covers the wide array of environmental, health, and safety areas. He has served as a local environmental official in Montana and Washington, managing a wide range of environmental programs covering drinking water, waste water, solid waste, food/ community safety, and disaster response issues. John helped establish and coordinated a groundwater protection district in addition to serving as a technical lead in underground storage tank and hazardous materials programs. He developed and implemented the first, local two-year community and technical college program directly focused on the environmental industry. A former Principal at Saltbush Environmental Services, he has been directly responsible for designing and managing over 500 environmental projects and is a voting member on three ASTM technical committees. John routinely manages all phases of environmental projects and performs all levels of project-related tasks.

Rick B. Powell, PE

Rick is a Principal Engineer and Manager of the firm's Geotechnical Division. He has an

academic background in both geotechnical and structural engineering, and has 20 years of professional engineering experience and collaborative work with the construction industry. Rick has worked on a variety of large residential developments, commercial, industrial and municipal projects throughout the Northwest, and has extensive experience in reinforced slope and wall design, the installation and use of slope inclinometers, and the back-calculation of critical slope parameters. He has supervised numerous landslide analysis and repair projects, which have included the use of fill buttresses, drilled piers, reinforced soil walls, and drainage improvements. This breadth of professional engineering and construction experience, along with early involvement in the project planning stages, allows Rick to provide practical, economical solutions to complex land use problems.

Charles P. Couvrette, PE

Chuck has been practicing geotechnical engineering, mainly in the greater Puget Sound region, since 1978. Using the skills established with his design and construction experience, Chuck has provided forensic evaluation of geotechnical-related damage to structures and hillsides. These services have been provided primarily to the insurance industry. Chuck's experience as a consultant includes participation in the design and construction of commercial, industrial and residential projects, including the design of numerous warehouse facilities, many of which required construction over soft ground and the need for surcharges or preloads with occasional pile support for specific sensitive areas.

F. Michael Krautkramer, LHG, RG, PG

Mike is Vice-President and a Principal Hydrogeologist of Robinson Noble, Inc. With over 37 years of experience, Mike has completed numerous groundwater projects in the Pacific Northwest. These projects include groundwater resource definition, well design, testing and drilling management, ground water/surface water basin analy-

ses, and identification/abatement of aquifer contamination problems. Mike is a Licensed Hydrogeologist in Washington, a Registered Geologist in Oregon, and a Professional Geologist in Alaska. He is active in the regulatory and political aspects of water resource management. He provides expertise to many entities, including testimony before the Washington State Legislature. Mike currently serves on the Legislative Committee for the Washington State Ground Water Association and is the Chair of the Ground Water Availability Committee of the National Ground Water Association. Mike provides services in both domestic and international markets, where he has a reputation as a problem-solver using practical methods to efficiently accomplish project objectives.

Douglas C. Dow, LHG

Doug has worked in the groundwater industry as a professional hydrogeologist for over 30 years. He has used his knowledge to prepare technical specifications; supervise construction; and design, test, rehabilitate and evaluate hundreds of test wells and dozens of major production wells in the Pacific Northwest. Doug has designed and operated multiple well data collection programs for evaluation of aquifer characteristics, contaminant migration, saltwater intrusion, and artificial recharge. He is also part owner and operator of Well Scan, Inc., a water well video inspection service. Doug has assisted many clients with water right issues by conducting audits, evaluating current water resources, and recommending appropriate changes to allow maximum use of those rights. Doug is a Senior Associate Hydrogeologist with the firm and performs project management, hydrogeologic investigations, all phases of field project work, and specialized geophysical analyses.

Dave P. Laush, LEG, CESCL

Dave is a Senior Engineering Geologist with more than 20 years of experience in field observation and testing for numerous construction projects, including public works, commercial, industrial, and residen-

tial developments. He has supervised field staff in earthwork observation and testing services, and trained workers in laboratory testing procedures. Dave has extensive experience with quality control and assurance procedures on large earthwork construction projects. He has worked on many large underground parking structures requiring underpinning, soil nailing, and tieback shoring at such locations as: Seattle, Washington; Portland, Oregon; and the Microsoft campus in Redmond, Washington. Dave has worked on multiple projects with contaminated soils and has observed the repair of numerous unstable slopes and landslides.

James E. Hay, LHG, CPG

Jim is a Senior Hydrogeologist with over 18 years of professional experience. He is a Licensed Hydrogeologist in Washington State and a Certified Professional Geologist in Alaska. Jim's academic background in both biology and geology have aided complex evaluations of surface and groundwater interaction, including multidisciplinary projects involving thermally-impacted groundwater systems and the subsurface ecology of hyporheic zones (areas of groundwater and surface water interaction). His field expertise and management skills have been central to the success of many regional and local groundwater projects. Jim provides both technical and management roles for a variety of projects: drilling supervision and testing of wells for public, private, commercial, and industrial clients; regional groundwater resource evaluations; spreadsheet modeling; analytical and numerical groundwater flow modeling; technical report preparation and legal support; and all phases of wellhead protection plans.

Michael F. Piechowski, LHG

Mike is a Senior Hydrogeologist with Robinson Noble. Prior to joining the firm in 1996, Mike spent several years working in environmental hydrogeology, identifying, delineating, and remediating soil and groundwater contamination. Mike's experience includes

drilling observation and supervision of a number of wells placed via a variety of drilling methods. Mike has directed and conducted the testing of monitoring and production wells for public, commercial, and industrial clients. In addition, he has completed a number of regional groundwater resource evaluations; has experience with analytical, element, and numerical groundwater flow modeling; and performs all phases of wellhead protection plans. Mike has extensive experience with groundwater monitoring instrumentation and is proficient in the completion and interpretation of downhole geophysical surveys. As a Licensed Hydrogeologist in Washington, Mike has also applied his expertise to numerous environmental projects, including Phase I and II Environmental Site Assessments, site investigations, remedial investigations, and soil and groundwater remediation projects.

Max T. Wills, LHG, CWRE

Max is a Senior Hydrogeologist with Robinson Noble. He has over 19 years of professional experience and extensive knowledge of Pacific Northwest geology and both groundwater and surface water hydrology. He manages complex environmental remediation projects, oversees a variety of well drilling and testing projects, and has performed a range of analytical and numerical computer modeling efforts. Max is adept at identifying, delineating, and remediating both soil and groundwater contamination and his involvement has been critical to the success of numerous groundwater resource projects. Max is a Licensed Geologist and Hydrogeologist in Washington State. He is also a Certified Water Rights Examiner (CWRE) familiar with a wide variety of water rights issues, wellhead protection, and permitting.

Barbara A. Gallagher, PE, CESCL

Barb is a Senior Project Engineer with 11 years of professional experience working on commercial, industrial, municipal, and residential projects. She has provided design services for embankments, retaining walls,

pavements, and both shallow and deep foundations. Barb has developed and implemented numerous subsurface investigations and testing programs using test pits, hand augers, cone penetrometers, and various drilling techniques (air-rotary, mud-rotary, and hollow-stemmed augers). She is familiar with installation and maintenance of a wide range of geotechnical instrumentation and has provided construction observation and testing services for a variety of projects from landfills to high-rise buildings. Barb's background in engineering and construction projects has yielded practical solutions to a broad spectrum of geotechnical engineering challenges.

Michael P. Brady, LG

Mike is a Project Geologist with seven years of professional experience. He has been working predominantly on resource protection, remediation, monitoring, and resource development projects across the Pacific Northwest. Mike is a Licensed Geologist in Washington State and has performed numerous hydrogeologic investigations at Robinson Noble with applications of groundwater modeling, wellhead protection delineation, wellfield development and monitoring, and field testing and analysis. He is also an accomplished professional in environmental projects involving groundwater monitoring, soil remediation, remediation technology, and due-diligence and fee-to-trust applications within Phase I and Phase II Environmental Assessments. Mike is also an AHERA-certified asbestos building inspector.

Kari A. Thomas

Kari is a Project Geologist with over six years of experience in geotechnical engineering, industrial hygiene, materials, and environmental consulting fields. She is an experienced field team leader and field health and safety coordinator. Her work experience and formal education includes groundwater and soil sampling, Phase I and Phase II environmental site investigations, geotechnical and environmental drilling,

asbestos and hazardous material building surveys, hazardous materials abatement oversight, indoor air quality and mold assessments, well installation, and construction monitoring. Kari also has experience working with wetlands management including groundwater elevation surveys, stream/channel flow, and sediment-loading studies.

Kevin H. Biersner, EIT, CESCL

Kevin is a Staff Engineer with experience in a wide variety of subsurface explorations and field evaluations. He performs geotechnical investigations and reconnaissance, as well as in situ and laboratory testing of soil. He is also licensed as a Certified Erosion and Sediment Control Lead (CESCL) to evaluate erosion control practices within a site.

Aaron C. Young

Aaron began his professional career with the Washington State Department of Natural Resources as a Natural Resources Scientist, where he developed skills in field reconnaissance and remote sensing techniques that were integral to a mapping effort of geologic hazards of coastal Thurston County. As a part of his undergraduate work, Aaron performed stream gaging, water quality sampling, and data compilation as a co-author of an ongoing multi-disciplinary investigation of the stream health of the Clover Creek watershed. Aaron joined Robinson Noble in 2007 as a Project Geologist and has an active role in all aspects of resource evaluation, well inspection and testing, water quality sampling, Phase I and Phase II Environmental Site assessments, and site remediation.

Robinson Noble Clientele

A selected list of Robinson Noble clients includes:

Federal/Tribal Agencies

- US Army Corps of Engineers
- US Fish and Wildlife Service
- Bureau of Indian Affairs
- Bureau of Reclamation
- Environmental Protection Agency
- Muckleshoot Indian Tribe
- Puyallup Tribe of Indians
- Makah Tribe

Washington State Agencies

- Department of Ecology
- Department of Health
- Department of Corrections
- Department of Fish & Wildlife
- Department of Natural Resources

Local Governments/Municipalities

- County Governments
- City Governments
- Wastewater Treatment Plants
- Special-Purpose Districts
- Public Utility Districts
- County and City Health Departments

Corporations/Industries

- Water Companies/Mutuals
- Special-Purpose Districts
- Port Authorities
- A&E Firms
- General Contractors
- Property Developers
- Banks

Robinson Noble has outstanding client references, and we welcome the opportunity to provide individual references from our projects.