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Modified Hazardous Materials Corridor Assessment

Folsom Road, Mill Creek Bridge

Key # 20306

Linn County Road Department
Albany, OR
July 2021

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Folsom Road, Mill Creek Bridge
Linn County Road Department - Albany, Oregon
Key #20306

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Report Date:	July 21, 2021
Project Number:	2021230003
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Jessica Penetar, PE, Project Engineer

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EXECUTIVE SUMMARY

Valley Science and Engineering (Valley) conducted a Modified Hazardous Materials Corridor Assessment (HMCA) for Linn County Road Department for the Folsom Road, Mill Creek Bridge replacement on Folsom Road, Albany, Oregon (Key #20306); referred to as the Project Corridor. The 58-foot long 3-span bridge was built in 1959. The current bridge is planned to be demolished, removed, and replaced with a single span prestressed concrete beam bridge which will meet current American Association of State Highway and Transportation Officials standards. The Modified HMCA consisted of a hazardous materials building survey for asbestos-containing materials, and soil sampling.

The HCMA identified the following potential environmental conditions that could impact the proposed construction:

- Three composite samples (SS-B1, SS-B2 and SS-06) contained arsenic at levels above the Department of Environmental Quality (DEQ) residential risk based concentrations for ingestion, dermal contact, and inhalation, but below background levels.
- The railing supports on the approach to the bridge were constructed with treated timbers.

Based on these findings, Valley recommends the following:

- Soils removed from the Project Corridor can be managed as clean fill per Oregon Department Of Transportation Directive GE 14-01(D) *Management of Surface Soils Removed Within Operational Right of Way.* However, soils removed from the Project Corridor should not be used on residential properties due to the levels of arsenic detected in some samples.
- Based on the low levels of arsenic in soils samples, construction work should be conducted in a manner to minimize dust. No additional practice is recommended based on the low levels that were determined.
- All treated timbers removed from the bridge when dismantled can be disposed of at a solid waste landfill permitted by the DEQ to receive this material. The Linn County Road Department has a permit to dispose of treated timbers at the Coffin Butte Landfill located north of Corvallis, Oregon; therefore sampling an analysis of these materials should not be required. The contract specification will allow the contractor to transport the timbers to and dispose of the material at this landfill.

1.0 INTRODUCTION

Valley Science and Engineering (Valley) has conducted this Modified Hazardous Materials Corridor Study (HMCS) for the following (herein referred to as the Project Corridor):

Folsom Road, Mill Creek Bridge - Modified HCMS
Key #20306
Folsom Road, Linn County Road Number 0651 at Milepost 0.65
Albany, Oregon; Linn County

The HMCS is intended primarily as an approach to identify potential sources of contamination that could impact the project. Such impacts could affect worker safety, property value, and construction costs. This report provides an overview of potential contamination issues.

Proposed construction activities associated with the Project Corridor include the following:

- The project will replace the existing bridge with a single span.
- The bridge and approaches will be widened.
- Large cranes and heavy equipment will be required to have access on both ends of the bridge during construction. Staging areas are expected to be located inside the existing right of way.
- A temporary detour bridge will be constructed.

2.0 CORRIDOR DESCRIPTION

The Project Corridor lies within northeast quarter of Section 5, Range 02 West, Township 11 South of the Willamette Meridian (Figure 1). This is primarily an agricultural area with some residences, with public and private roadways in Albany, Linn County, Oregon. The existing bridge was constructed in 1959.

2.1 Physical Setting

According to the United Stated Geological Service (USGS) 7.5' Crabtree Quadrangle Map, the Project Corridor is at an elevation of approximately 255 feet above mean sea level (Appendix A). The nearest surface water body is Mill Creek, which flows through the Project Corridor to the north towards the north-flowing South Santiam River. Additionally, the Lakeview Slough is within one-tenth of a mile of the Project Corridor. The local topography at the Project Corridor is generally flat, with slopes towards Mill Creek. The section of Folsom Road within the Project Corridor is elevated from some of the surrounding fields, but is relatively level on the northwest side. Stormwater at the Project Corridor general flows into ditches along Folsom Road towards Mill Creek. The Project Corridor is covered by vegetation except for Folsom Road, a gravel driveway on the eastern side of the Bridge, and a dirt access road on the western side of the bridge. The roadbeds along the pavement are mostly gravel with sparse vegetation. The Project Corridor is located in the 100-year flood zone (Appendix A).

Based on the local topography and proximity of surface water bodies, groundwater flow is presumed to flow north along Mill Creek and Lakeview Slough to the South Santiam River. However, local subsurface geologic and manmade features can affect groundwater flow; therefore, this groundwater

flow interpretation is an assumption. Review of water well records filed with the Oregon Water Resources Department (OWRD) indicate that the depth to groundwater near the Project Corridor is expected to range between 5 and 16 feet below ground surface (bgs). Seasonal fluctuations may contribute to the range in groundwater depths recorded.

3.0 OBSERVATIONS

Valley conducted a site reconnaissance on May 13, 2021. The reconnaissance consisted of systematically traversing the Project Corridor and visually observing adjacent properties from public roadways. Photographs documenting reconnaissance observations are included in Appendix B while the site reconnaissance checklist is provided in Appendix C.

Land use in the Project Corridor is primarily agricultural with public roadways (Photographs 1 through 4) and gravel or dirt roads for access to fields. Mill Creek (Photograph 5) flows through the Project Corridor to the north. The following table summarizes potential sources of environmental concerns identified during the site reconnaissance within the Project Corridor.

Potential Sources of Hazardous Substances	Observed?
Heating oil tanks	No
Aboveground Storage Tanks (ASTs)	No
Underground Storage Tanks (USTs), fill and vent pipes, fuel dispensers	No
Other hazardous substance containers	No
Hazardous waste generation	No
Oil water separators, dry wells or floor/storm drains	No
Septic systems	No
Stains or odors	No
Stressed vegetation	No
Solid waste	Yes
Suspect asbestos-containing materials	Yes
Suspect lead-based paint	No
Potential polychlorinated biphenyls (PCBs)-containing equipment	No
Florescent or mercury vapor light bulbs	No
Treated timbers	Yes
Water wells or monitoring wells	No

Specific details regarding potential hazardous material sources are provided below. The locations of these sites are shown on Figure 2.

3.1 Solid Waste

Some solid waste was observed in and around the Project Corridor. The waste consisted of general refuse, such as food wrappers and bits of paper or plastic, and some metal debris, observed in Mill Creek or along the side of Folsom Road. Farm equipment and dilapidated sheds/barns were located near the northwest corner of the Project Corridor (Photograph 2). The observed materials are not considered hazardous and as such not an environmental concern for the proposed construction activities.

3.2 Suspect Asbestos-Containing Materials

Asbestos fibers are known or suspected to cause a number of health risks when inhaled or ingested. However, the mere presence of asbestos containing material (ACM) does not mean there is a significant exposure risk. In order for a significant exposure risk to exist, the ACM must be accessible and capable of releasing fibers or being disturbed in such a way as to cause the release of fibers (i.e., friable) (e.g., repair or demolition activities). Current regulations do not require the removal of ACM unless an exposure risk is present.

3.2.1 Plan Review

Jessica Penetar, a Certified Asbestos Hazard Emergency Response Act (AHERA) Accredited Inspector (Cert. #IR-18-5549B), requested copies of available plans, elevations and details of the Folsom Road Mill Creek Bridge from Linn County. No materials were provided.

3.2.2 Asbestos Survey

Ms. Penetar completed the asbestos survey of the bridge on May19, 2021. The survey included:

- Inspection of possible ACM,
- Completion of the asbestos survey form (Appendix C), and
- Collection of 14 bulk samples from accessible locations on and under the bridge for asbestos content. These included samples of piling cap materials, mastic on the piling caps and in between the concrete joints, spacers between the pilings and steel beams, foam insulation, and a paper-like material on concrete under the bridge.

Samples collected during the survey were placed into plastic bags, which were sealed and labeled. Sampling tools were cleaned between use to reduce the potential for cross-contamination. All samples were shipped under chain-of-custody protocol to Eurofins Frontier Global Sciences, Inc. (formerly TestAmerica Eurofins) in Seattle, Washington for asbestos analysis by polarized light microscopy by Environmental Protection Agency (EPA) Method EPA/600/R-93/116.

The approximate sample locations are shown on Figure 3 and materials sampled are shown in Photographs 6 through 10.

3.2.3 Results

Materials containing greater than 1% asbestos are considered ACM by EPA standards. None of the samples collected during the survey were reported as ACM (Table 1 and Appendix D).

Note that additional ACM may be present on-site in inaccessible or concealed locations. If future renovation/demolition activities make these areas accessible, Valley recommends a thorough assessment be conducted of these areas at that time to identify and confirm the presence or absence of additional ACM. Until then, all such material should be treated as presumed ACM in accordance with 29 CFR 1926.1101 and 1910.1001.

Asbestos containing materials associated with utilities were not surveyed and are the responsibility of the utility company. If ACM or other hazardous materials associated with utilities are encountered, the

utility company is required to remove the material in accordance with applicable regulations prior to or at commencement of bridge removal and replacement.

3.3 Treated Timbers

Treated timbers were observed supporting railings, bridge supports, and telephone poles along the bridge. Treated timbers can be generally be disposed of at Coffin Butte Landfill north of Corvallis, Oregon. The Linn County Road Department has a permit to dispose of treated timbers at the landfill and thus, sampling and analysis of these materials on the bridge is not required. The contract specification should allow the contractor to transport any treated timbers from the bridge and dispose of the material at this landfill.

4.0 HISTORICAL RECORDS

Historical use information was obtained by Valley for the Project Corridor by reviewing historical sources such as city directories, aerial photographs, and historical maps.

4.1 Aerial Photographs

Valley reviewed aerial photographs dated 1936 to 2016 obtained from Environmental Data Resources (EDR) to clarify past land uses, as described below. Copies of the aerial photographs are included in Appendix A.

Date	Description
1936	The Project Corridor is a roadway with a bridge over Mill Creek. The areas next to the creek are heavily vegetated. The surrounding areas are primarily farmland or undeveloped land. A few structures, presumed residences, are located to the north and south of the Project Corridor.
1948	Vegetation in much of the Project Corridor and the surrounding areas have been cleared for pasture or farmland. Several structures to the east of the Project Corridor, presumed residences, are now present.
1955	The Project Corridor and surrounding areas appear relatively unchanged from the 1948 photograph. Several more structures are visible in the surrounding areas.
1967	A presumed residence with several structures is present adjacent to the northwest corner of the Project Corridor. The remaining Project Corridor and surrounding areas appear relatively unchanged from the 1955 photograph.
1976	The photograph is blurry but the Project Corridor and surrounding areas appear relatively unchanged from the 1967 photograph.
1982	The Project Corridor and surrounding areas appear relatively unchanged from the 1976 photograph. Several more structures are visible in the surrounding areas, although one structure adjacent to the east of the project corridor is no longer visible.
1994	The Project Corridor and surrounding areas appear relatively unchanged from the 1982 photograph.
2006	The Project Corridor and surrounding areas appear relatively unchanged from the 1994 photograph. The structures east of the corridor are slightly larger than in the 1994 photograph.
2009	The Project Corridor and surrounding areas appear relatively unchanged from the 2006 photograph.

Date	Description
2012	The Project Corridor and surrounding areas appear relatively unchanged from the 2009 photograph.
2016	The Project Corridor and surrounding areas appear relatively unchanged from the 2012 photograph.

As shown, residential and farming activities were identified in the surrounding areas in the aerial photograph review from 1936 to 2016.

4.2 Sanborn Fire Insurance Maps

Valley requested Sanborn Fire Insurance Maps from EDR to identify past land uses. According to EDR, no coverage is available for the Project Corridor (Appendix A).

4.3 Historic Topographic Maps

Historic topographic maps of the Project Corridor and surrounding properties were reviewed from the USGS Topo and Historical Topographic Map Collection for the years dating from 1911 to 2014. Historic Topographic Maps are used to identify past land uses, as described below and are included in Appendix A.

Date	Description
1921	The 15-minute Lebanon Quadrangle map depicts a blank Project Corridor and surrounding areas.
1922	The 15-minute Lebanon Quadrangle map depicts a Folsom Road and Mill Creek in the Project Corridor. A handful of structures are shown on Folsom Road. Mill Creek is shown connecting to the Santiam River to the southeast of the Project Corridor. The surrounding areas contain 2 schools, multiple structures, and roads.
1924	The 15-minute Lebanon Quadrangle map appears relatively unchanged from the 1922 map.
1944	The 15-minute Lebanon Quadrangle map appears relatively unchanged from the 1924 map.
1957	The 15-minute Lebanon Quadrangle map depicts the Project Corridor as relatively unchanged from the 1944 map. A levee is now shown to the southeast of the Project Corridor and Mill Creek no longer connects to the Santiam River. A pond is present to the west of the levee that flows to Mill Creek.
1970	The 7.5-minute Crabtree Quadrangle map appears relatively unchanged from the 1957 map, with the exception of several structures immediately adjacent to the Project Corridor to the northwest. The levee is next to the Santiam River is no longer labeled and now appears as open/vegetated space with a lake surrounding it.
1975	The 7.5-minute Crabtree Quadrangle map appears relatively unchanged from the 1970 map.
2014	The 7.5-minute Crabtree Quadrangle map no longer shows individual structures. The Project Corridor and surrounding areas appear relatively unchanged from the 1975 map.

4.4 City Directories

City directories, which list businesses and residents with their addresses, can provide additional information regarding historical land use and development of a project corridor and its surrounding area. Valley requested city directories from EDR (Appendix A) for Folsom Road. Directories dating

from 1992, 1995, 2000, 2005, 2010, 2014, and 2017 were reviewed to identify past land uses. A summary of the review is provided below.

The following listings are located within one-half mile of the Project Corridor:

- Southfork Ag – 36215 Folsom Road (2005) approximately 0.1 miles to the east.

The business listed above has the potential for hazardous materials for truck or equipment maintenance, and agricultural chemicals. However, this property is located in the presumed side-gradient groundwater direction and therefore unlikely to have a potential environmental impact.

No additional properties were identified in the city directory review that have the likely potential for environmental contamination.

5.0 ENVIRONMENTAL RECORDS REVIEW

Valley obtained primary records from EDR for federal, state, and EDR proprietary historical databases and has summarized pertinent information in the following sections.

5.1 Federal Database Records

Valley reviewed available federal records for identified hazardous waste sites using "The EDR Radius Map™ with GeoCheck®" (Appendix A). The following table shows the database search radii set forth along with the total number of sites found for each database searched in accordance with the minimum search distances outlined in the American Society for Testing and Materials (ASTM) Standard E1527-13 (ASTM International, 2013).

Federal Database Record	Search Radius	Total Sites Found	On or Adjoining Corridor
National Priority List (NPL)	1 mile	0	NA
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	0.5 mile	0	NA
CERCLIS No Further Remedial Action Planned (NFRAP)	0.5 mile	0	NA
Corrective Action Report (CORRACTS)	1 mile	0	NA
Resource Conservation and Recovery Act Information – Treatment, Storage, Disposal Facilities (RCRA-TSD)	0.5 mile	0	NA
RCRA – Large Quantity Generator	0.25 mile	0	NA
RCRA – Small Quantity Generator	0.25 mile	0	NA
RCRA – Conditionally Exempt Small Quantity Generator	0.25 mile	0	NA
Emergency Response Notification System (ERNS)	Target Property	0	NA
27 Supplemental Federal Databases	Varies	0	NA

As shown, none of the federal databases listed facilities within the specified search radii in the EDR report.

5.2 State and Tribal Databases

Valley reviewed available state and tribal records for identified hazardous waste sites using "EDR Radius Map™ Report with GeoCheck®" (Appendix A). The following table shows the database search radii set forth along with the total number of sites found for each database searched in accordance with the minimum search distances outlined in the ASTM Standard E1527-13 (ASTM International, 2013).

State and Tribal Database Record	ASTM Search Radius (Miles)	Total Sites Found	On or Adjoining Corridor
State – Environmental Cleanup Site Information System (ECSI)	1 mile	0	No
Oregon Confirmed Release List and Inventory (OR CRL)	1 mile	0	NA
Solid Waste Facilities List (SWF/LF)	0.5 mile	0	NA
Leaking Underground Storage Tanks Site List (LUST)	0.5 mile	0	No
Underground Storage Tank Database (UST)	0.25 mile	0	No
Aboveground Storage Tank Database (AST)	0.25 mile	0	NA
Oregon Voluntary Cleanup Program Sites (VCP)	0.5 mile	0	NA
Engineering Controls	0.5 mile	0	NA
Institutional Controls	0.5 mile	0	NA
EDR MGP	1 mile	0	NA
EDR Historic Auto	0.125 mile	0	NA
EDR Historic Dry Cleaner	0.125 mile	0	NA
18 Supplemental State/Tribal Databases	Varies	0	NA

As shown, none of the state databases listed facilities within the specified search radii in the EDR Report.

5.3 Unmappable Facilities

Unmappable facilities are environmental risk facilities that EDR cannot map due to inadequate address information but can locate by zip code or city name. The EDR report identified no unmappable facilities for the project area.

6.0 ADDITIONAL RESEARCH

As part of the Hazardous Material Corridor Study, Valley conducted additional research typical of portions of an ASTM Phase I Environmental Site Assessment. The following sections summarize the results of this research.

6.1 Oregon State Fire Marshal's Office

Valley reviewed records from the Oregon State Fire Marshal's (OSFM) database for hazardous materials incidents at the Project Corridor and surrounding properties. Based on a search of these records, no reportable incidents occurred near the Project Corridor (Oregon State Fire Marshal, 2021)

7.0 SOIL SAMPLING AND ANALYSIS

As part of the modified HMCS, Valley completed soil sampling activities on April 2, 2021, and May 13, 2021, in the Project Corridor. Valley follows the industry standard field practices for soil sampling. Samples were analyzed by Eurofins Frontier Global Sciences LLC, Inc., Seattle, Washington. Valley personnel that collected the samples are certified OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER)-trained (29 Code of Federal Regulations 1910.120(e)). The approximate locations of the soil samples are shown on Figure 2.

The following analytical methods were used:

- Polynuclear aromatic hydrocarbons (PAHs) by EPA method 8270E-SIM;
- Resource Conservation and Recovery Act (RCRA) metals by EPA method 6010D and 7471A;
- Pesticides by EPA method 8081B;
- Herbicides by EPA method 8151A;
- Volatile Organic Compounds (VOCs) by EPA method 8260D;
- Polychlorinated Biphenyls (PCBs) by EPA method 8082A;
- Northwest Total Petroleum Hydrocarbons Diesel Range by method NWTPHDx; and
- Northwest Total Petroleum Hydrocarbons Gasoline Range by method NWTPHGx.

The analyses for each sample were selected based on historical use (agriculture) and information provided by Linn County that oil may have been used on the road before it was paved.

7.1 Subsurface Soil Sampling

Soils from as deep as 5-feet may be excavated during the road and bridge reconstruction. Composite soil samples were collected to a maximum depth of 5-feet in conjunction with geotechnical drilling activities (Photograph 11) performed by Foundation Engineering, Inc. on April 2, 2021. Soil from each boring was composited and placed into laboratory-supplied jars and Terra Core® kits. A solid stem auger was used to collect soils from the first five-feet below ground surface.

- Sample SS-B1 was collected from 0.5-feet to 5-feet bgs on the west side of the bridge. Pavement was approximately 0.5-feet thick. The sample was analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs, and petroleum hydrocarbons (diesel and gasoline range).
- Sample SS-B2 was collected from 0.5-feet to 5-feet bgs on the east side of the bridge. Pavement was approximately 0.5-feet thick. The sample was analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs and petroleum hydrocarbons (diesel and gasoline range).

7.2 Near-Surface Soil Sampling

Composite soil samples were collected on May 13, 2021 with a decontaminated stainless steel shovel (Photograph 12) from the upper one and a half feet in accordance with the Oregon Department of

Transportation (ODOT) Directive GE 14-01(D). Soils from 3 locations were composited and placed into laboratory-supplied jars and Terra Core® kits. Samples were obtained from the following locations:

- Sample SS-03 was a three-point composite collected from soils along Folsom Road on the northwest side of the bridge and analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs and petroleum hydrocarbons (diesel and gasoline range).
- Sample SS-04 was a three-point composite collected from soils along Folsom Road on the southwest side of the bridge and analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs and petroleum hydrocarbons (diesel and gasoline range).
- Sample SS-05 was a three-point composite collected from soils along Folsom Road on the northeast side of the bridge and analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs and petroleum hydrocarbons (diesel and gasoline range).
- Sample SS-06 was a three-point composite collected from soils along Folsom Road on the southeast side of the bridge and analyzed for PAHs, RCRA metals, pesticides, herbicides, VOCs, PCBs and petroleum hydrocarbons (diesel and gasoline range).

7.3 Soil Sampling Results and Discussion

Results of the soil analyses are presented in Table 2. A copy of the laboratory analytical data is provided in Appendix D. The samples contained low levels of one PAH, petroleum hydrocarbons, one pesticide, and metals. Arsenic was detected above the Department of Environmental Quality (DEQ) risk-based concentration (RBC) for residential ingestion, dermal contact, and inhalation in samples SS-B1, SS-B2, and SS-06. However, the arsenic concentrations detected were below DEQ background levels and clean fill determinations for the Willamette Valley. No other exceedances to applicable criteria were detected.

The soils in the Project Corridor can be treated as clean fill per ODOT Directive GE 14-01(D) *Management of Surface Soils Removed Within Operational Right of Way* based on the sampling in this HMCS if removed from the right-of-way. However, soils removed from these areas should not be used on residential properties due to the levels of arsenic detected in some samples. If, during construction and excavation, indications of soil contamination are observed (e.g. odors, staining, debris, etc.), additional sampling may be required.

8.0 CONCLUSIONS

Valley conducted this HMCS for the Folsom Road, Mill Creek Bridge - Key #20306 in Linn County, Oregon. The HCMS identified the following potential environmental conditions that could impact the proposed construction:

- Three composite samples (SS-B1, SS-B2 and SS-06) contained arsenic at levels above the DEQ residential RBC for ingestion, dermal contact, and inhalation, but below background levels.
- The railing supports on the approach to the bridge were constructed with treated timbers.

Based on these findings, Valley recommends the following:

- Soils removed from the Project Corridor can be managed as clean fill per ODOT Directive GE 14-01(D) *Management of Surface Soils Removed Within Operational Right of Way.* However, soils removed from the Project Corridor should not be used on residential properties due to the levels of arsenic detected in some samples.
- Based on the low levels of arsenic in soil samples, construction work should be conducted in a manner to minimize dust. No additional practice is recommended based on the low levels that were determined.
- All treated timbers removed from the bridge when dismantled can be disposed of at a solid waste landfill permitted by the DEQ to receive this material. The Linn County Road Department has a permit to dispose of treated timbers at the Coffin Butte Landfill located north of Corvallis, Oregon; therefore sampling an analysis of these materials should not be required. The contract specification will allow the contractor to transport the timbers to and dispose of the material at this landfill.

9.0 LIMITATIONS

This assessment was conducted according to American Association of State Highway and Transportation Officials (AASHTO) criteria for a Corridor Study and does not represent an ASTM Phase I ESA. It is for Linn County's use only and may not be relied upon by any other entity without written permission from an authorized Linn County representative. This report is presented as current at the time of publication; it does not warrant against changes in land use or environmental conditions subsequent to its publication. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, location, and project indicated. This report is not a definitive study of contamination in the Project Corridor and should not be interpreted as such.

Performance of a Corridor Study is intended to reduce but not eliminate uncertainty regarding the existence of environmental conditions. The AASHTO practice is intended primarily as an approach to identifying potential sources of contamination that could impact a project. Based on the AASHTO guide, this Corridor Study constitutes appropriate inquiry into current and past uses of properties within the Project Corridor and is consistent with good commercial or customary practice. However, no environmental assessment can wholly eliminate uncertainty regarding the potential for environmental conditions in connection with a project. This report is based in part on unverified information supplied to Valley by third-party sources. While Valley has made efforts to substantiate this third-party information, we cannot guarantee its completeness or accuracy.

Valley staff participating in this Corridor Study are scientists, not attorneys. Therefore, it must be clear to all parties that this report does not offer any legal opinion, representation, or interpretation of environmental laws, rules, regulations, or policies of federal, state, or local government agencies.

10.0 SIGNATURES

Report preparation conducted by Jessica Penetar, PE

Jessica Penetar _____ 7/21/2021

Signature Date

Corporate review conducted by Dan Bruner, Managing Geologist

Daniel J. Bruner _____ 7/20/2021

Signature Date

REFERENCES

ASTM International. (2013). *Standard practice for environmental site assessments: phase I environmental assessment process*, (ASTM E1527-13). West Conshohocken, PA: American Society for Testing and Materials.

Oregon State Fire Marshal. (2021). *Hazardous incident search*. Retrieved May 11, 2021, from Oregon.gov: https://www.oregon.gov/osp/programs/sfm/Pages/Hazardous-Incident-Information.aspx

TABLES

Table 1. Asbestos Survey Results

Folsom Rd Mill Creek - Linn County

Sample ID	Date Collected	Location - Description	Friable/Non-Friable	ACM Detected
AS-01	5/19/2021	Piling cap - shingle	Friable	No
AS-02	5/19/2021	Piling cap - mastic / fabric	Friable	No
AS-03	5/19/2021	Piling cap - mastic / black tar	Non-Friable	No
AS-04	5/19/2021	Concrete/steel spacer - rubbery	Non-Friable	No
AS-05	5/19/2021	Concrete joints - black tar	Non-Friable	No
AS-06	5/19/2021	Concrete joints - foam insulation	Non-Friable	No
AS-07	5/19/2021	Piling cap - shingle	Friable	No
AS-08	5/19/2021	Piling cap - mastic / fabric	Friable	No
AS-09	5/19/2021	Piling cap - mastic / black tar	Non-Friable	No
AS-10	5/19/2021	Concrete/steel spacer - rubbery	Non-Friable	No
AS-11	5/19/2021	Concrete joints - black tar	Non-Friable	No
AS-12	5/19/2021	Concrete joints - foam insulation	Non-Friable	No
AS-13	5/19/2021	Under concrete beams - Paper spacer/liner	Friable	No
AS-14	5/19/2021	Under concrete beams - Paper spacer/liner	Friable	No

NOTES:
Materials with at least 1% asbestos are considered ACM.
Abbreviations: ACM - asbestos containing material

Table 2. Soil Analytical Results
Folsom Rd Mill Creek - Linn County

Sample ID	Date Collected	Composite Depths (ft)	Total Metals					Pesticides	Hydrocarbons		PAH
			Arsenic	Barium	Chromium (total)	Lead	Mercury	4,4'-DDT	Gasoline Range Organics	Residual Range Organics	Phenanthrene
			milligrams per kilogram								
SS-B1	4/2/2021	0.5 - 5	**4**	75	16	5.7	0.028	<0.0075	<4.5	<61	<0.0063
SS-B2	4/2/2021	0.5 - 5	**2.8**	54	10	4.7	<0.026	<0.0073	<6.6	88	<0.0062
SS-03	5/13/2021	0 - 1.5	<0.0031	18	5.2	3.5	<0.025	0.0055	<11	<53	<0.0055
SS-04	5/13/2021	0 - 1.5	<0.0031	20	6.2	4.1	<0.025	0.0058	<11	<50	<0.0055
SS-05	5/13/2021	0 - 1.5	<0.0031	14	5.7	2.8	<0.024	0.0055	<11	<51	<0.0055
SS-06	5/13/2021	0 - 1.5	**2.4**	19	6.2	11	<0.026	0.0056	6.7	<55	0.0063
Soil Ingestion, Dermal Contact and Inhalation - Residential [1]			0.43	15,000	120,000	400	23	1.9	1,200	NS	NS
Soil Ingestion, Dermal Contact and Inhalation - Construction Worker[1]			15	69,000	530,000	800	110	66	9,700	NS	NS
Leaching to Groundwater - Residential[1]			*	*	*	*	*	12	31	NS	NS
Clean Fill Screening Levels[2]			18	730	100	28	0.07	0.01	31	NS	5.5
Background Levels of Metals[2]			18	730	100	28	0.07	NS	NS	NS	NS

NOTES:
Bold indicate an exceedance to Risk Based Concentrations (RBC).
Only compounds with at least one detection are shown. No VOCs, diesel range hydrocarbons, PCBs, or herbicides were detected.
Analytical methods: Metals by 6010D and 7471A, VOCs by 8260D, Hydrocarbons by NWTPHDX and GX, PAHs by 8270E-SIM, Pesticides by 8081B, herbicides by 8151A.
Abbreviations: < = below method detection limits, * = Leaching-to-Groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed, ft = feet, PAH = polycyclic aromatic hydrocarons.

1 DEQ, 2018. Risk-Based Concentrations for Individual Chemicals. Oregon Department of Environmental Quality.

2 DEQ, 2019. Clean Fill Determinations. Oregon Department of Environmental Quality. Background levels of metals for the South Willamette Valley

FIGURES

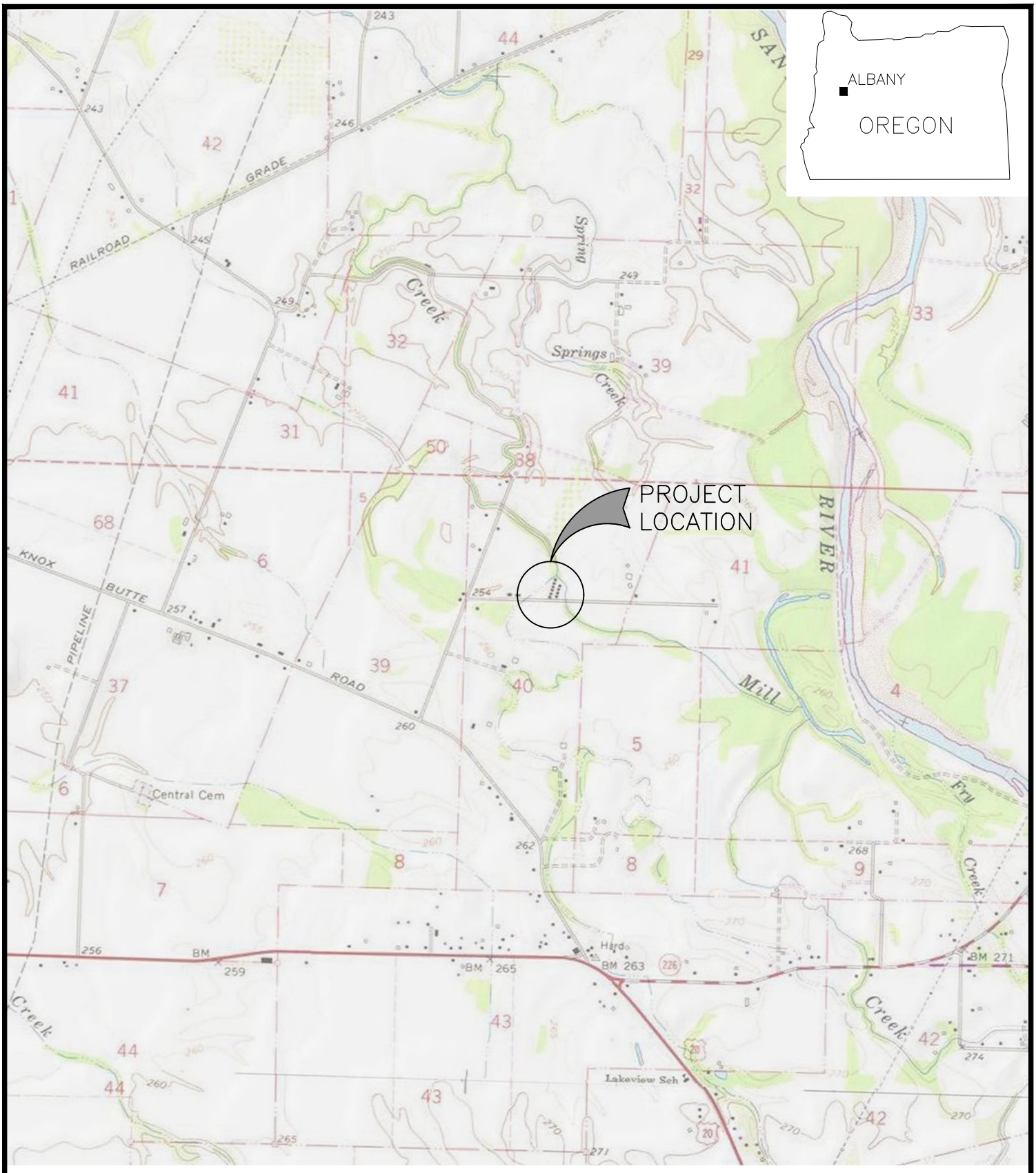


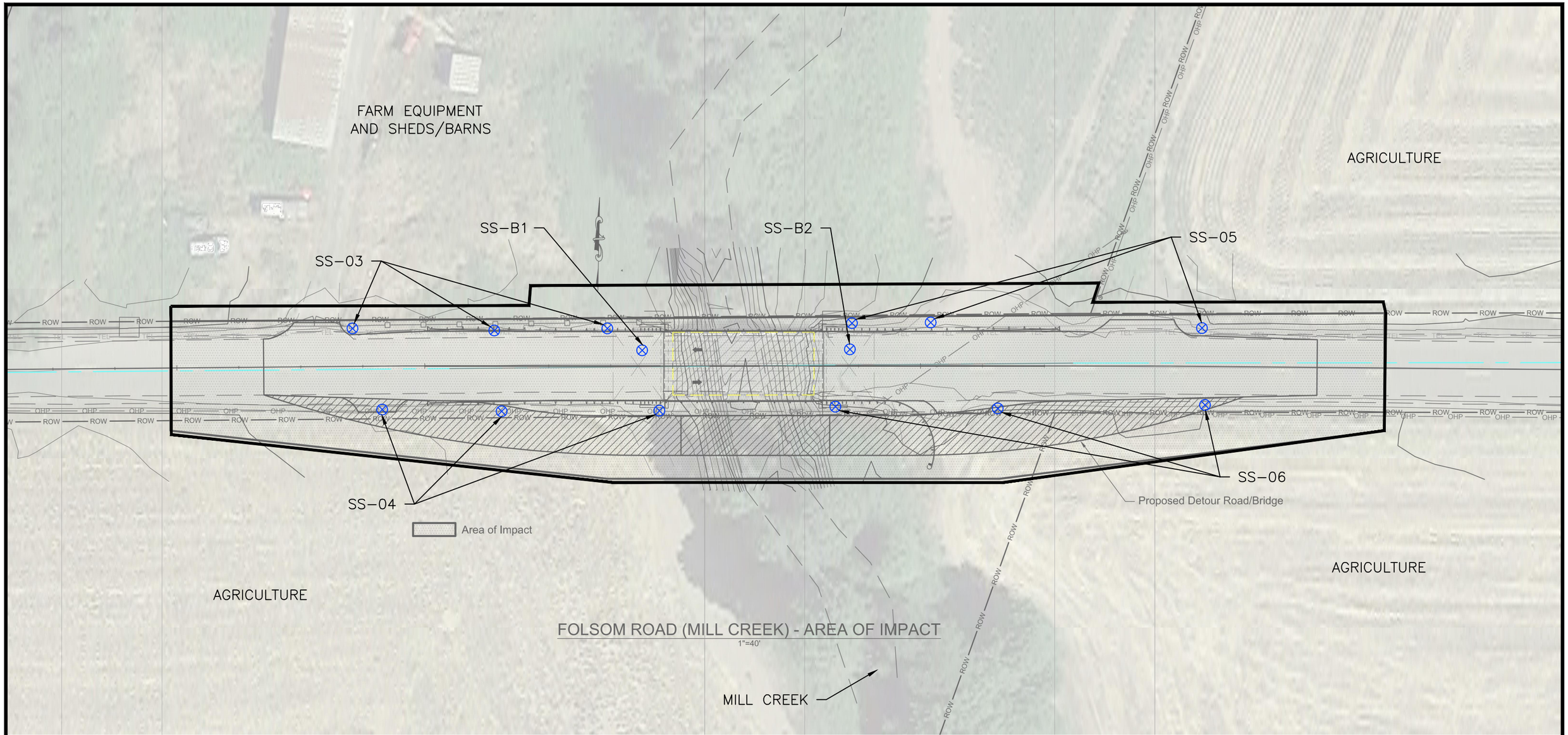
Figure 1. Project Location

(SCALE AND LOCATIONS ARE APPROXIMATE)

(SOURCE: ©2013 National Geographic Society, i-cubed)

PROJECT NUMBER: 2021230003	Folsom Road – Mill Creek Bridge Modified HMCA
DATE: 6/7/2021	
DWG NO: 2021230003 8X11P.DWG	Linn County Road Department Albany, Oregon
DWG BY: 6NSG / PROJECT MANAGER: 1JAP	
REVISED:	VALLEY SCIENCE AND ENGINEERING

S:\[Working Drafting]\2021230003 Linn County\XREF\2021230003 8x11P.dwg June 30, 2021 NG711452



LEGEND:

⊗ SOIL SAMPLE LOCATION (APPROXIMATE)

PROJECT CORRIDOR

0 40'

1"=40'

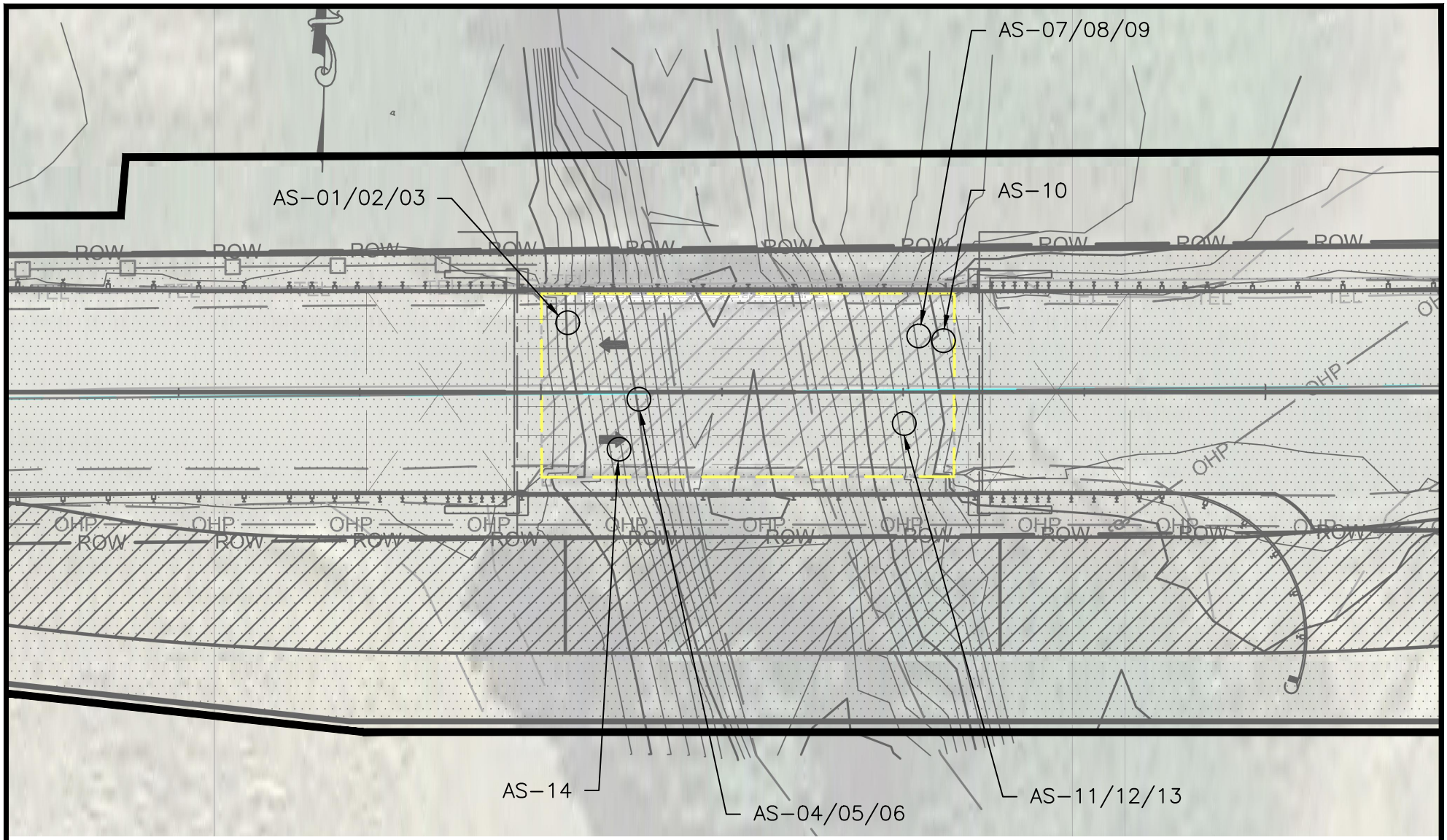
(SCALE AND LOCATIONS ARE APPROXIMATE)

(SOURCE: LINN COUNTY ROAD DEPARTMENT)

Figure 2. Project Corridor Details and Soil Sample Locations

PROJECT NUMBER: 2021230003	Folsom Road – Mill Creek Bridge Modified HMCA
DATE: 6/7/2021	
DWG NO: 2021230003 8X11P.DWG	Linn County Road Department Albany, Oregon
DWG BY: 6NSG / PROJECT MANAGER: 1JAP	
REVISED:	VALLEY SCIENCE AND ENGINEERING

S:\[Working Drafting]\2021230003 Linn County\XREF\2021230003 8x11P.dwg June 30, 2021 NG711452



LEGEND:

○ ASBESTOS SAMPLE LOCATION (APPROXIMATE)

— PROJECT CORRIDOR

(SOURCE: LINN COUNTY ROAD DEPARTMENT)

N

0 20'

1"=20'

(SCALE AND LOCATIONS ARE APPROXIMATE)

Figure 3. Asbestos Survey

PROJECT NUMBER: 2021230003	Folsom Road – Mill Creek Bridge Modified HMCA
DATE: 6/7/2021	
DWG NO: 2021230003 8X11P.DWG	Linn County Road Department Albany, Oregon
DWG BY: 6NSG / PROJECT MANAGER: 1JAP	
REVISED:	VALLEY SCIENCE AND ENGINEERING

APPENDICES

Appendix A. Historical Data
Appendix B. Site Photographs
Appendix C. Site Reconnaissance Checklist and Field Forms
Appendix D. Laboratory Analytical Data

Appendix A.

Historical Data

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322

Inquiry Number: 6413815.2s
March 19, 2021

The EDR Radius Map™ Report with GeoCheck®

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

TABLE OF CONTENTS

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

EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

FOLSOM ROAD
ALBANY, OR 97322

COORDINATES

Latitude (North):	44.6449970 - 44° 38' 41.98''
Longitude (West):	122.9546850 - 122° 57' 16.86''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	503593.6
UTM Y (Meters):	4943299.5
Elevation:	255 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6068586 CRABTREE, OR
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140630
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
FOLSOM ROAD
ALBANY, OR 97322

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

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

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

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

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

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

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

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

CRL ..... Confirmed Release List and Inventory
ECSI ..... Environmental Cleanup Site Information System

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

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

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

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

State and tribal voluntary cleanup sites

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

State and tribal Brownfields sites

BROWNFIELDS ..... Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

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

ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

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

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Spill Database
OR HAZMAT	Hazmat/Incidents
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

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

ABANDONED MINES - Abandoned Mines
FINDS - Facility Index System/Facility Registry System
DOCKET HWC - Hazardous Waste Compliance Docket Listing
ECHO - Enforcement & Compliance History Information
UXO - Unexploded Ordnance Sites
FUELS PROGRAM - EPA Fuels Program Registered Listing
AIRS - Oregon Title V Facility Listing
COAL ASH - Coal Ash Disposal Sites Listing
DRYCLEANERS - Drycleaning Facilities
Enforcement - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
HSIS - Hazardous Substance Information Survey
MANIFEST - Manifest Information
NPDES - Wastewater Permits Database
UIC - Underground Injection Control Program Database
MINES MRDS - Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

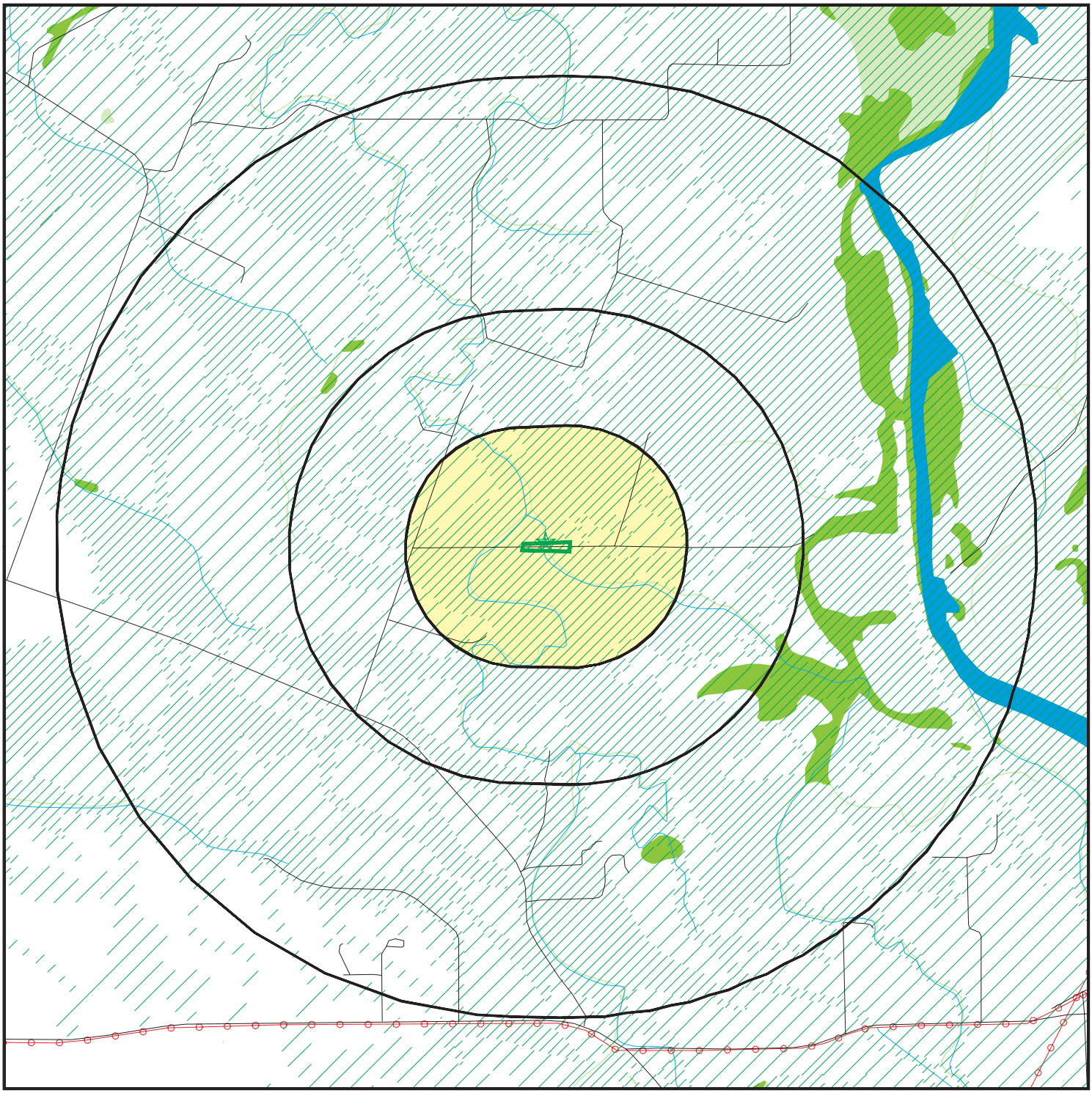
Surrounding sites were not identified.

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

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 6413815.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

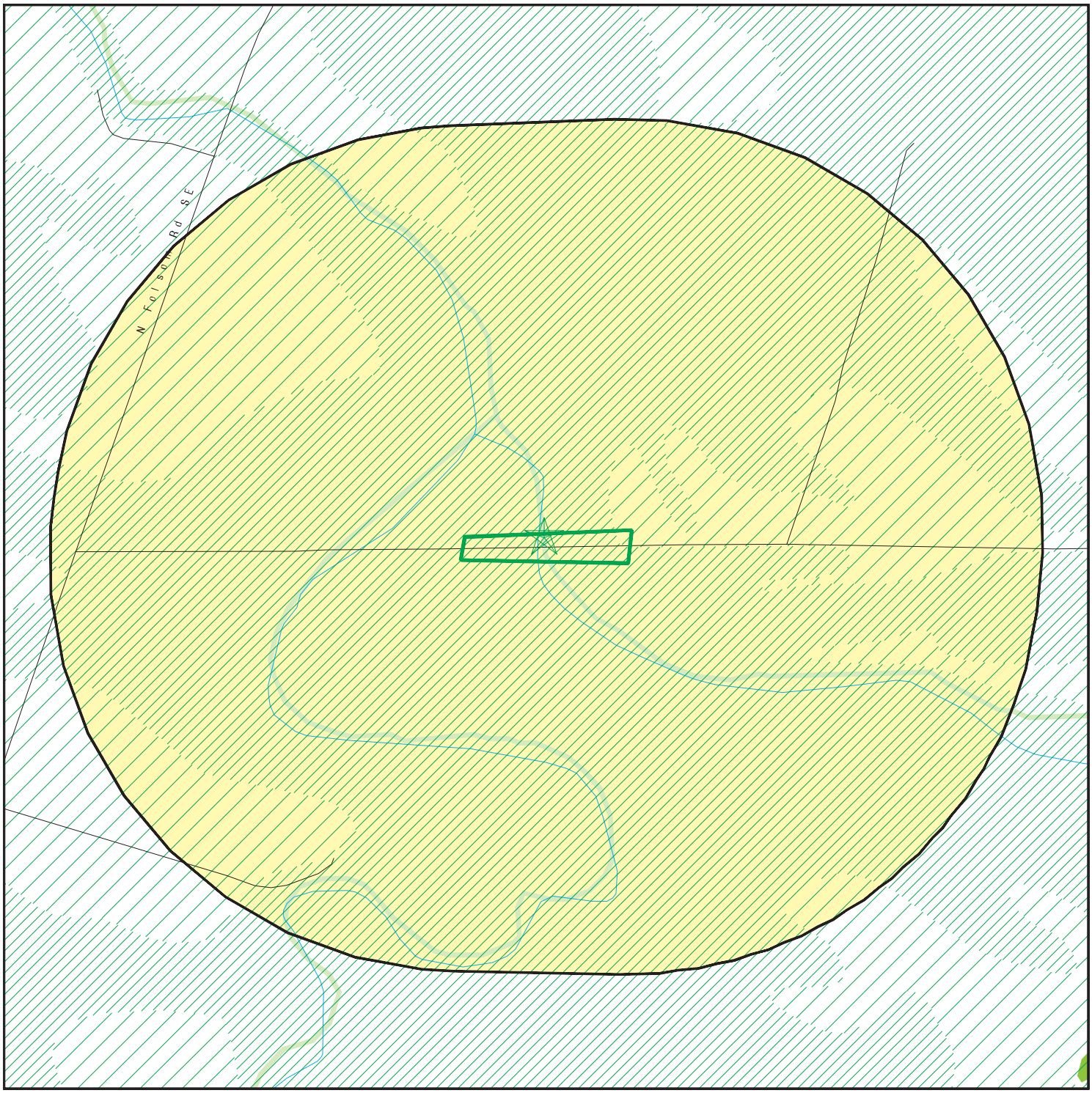
Areas of Concern

N

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

SITE NAME: Folsom Road Mill Creek Bridge	CLIENT: Cascade Earth Sciences
ADDRESS: Folsom Road Albany OR 97322	CONTACT: Jessica Penetar
LAT/LONG: 44.644997 / 122.954685	INQUIRY #: 6413815.2s DATE: March 19, 2021 4:16 pm

DETAIL MAP - 6413815.2S



0 1/16 1/8 1/4 Miles

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

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

SITE NAME: Folsom Road Mill Creek Bridge	CLIENT: Cascade Earth Sciences
ADDRESS: Folsom Road Albany OR 97322	CONTACT: Jessica Penetar
LAT/LONG: 44.644997 / 122.954685	INQUIRY #: 6413815.2s DATE: March 19, 2021 4:18 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
CRL	1.000		0	0	0	0	NR	0
ECSI	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	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								
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
OR HAZMAT	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Enforcement	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HSIS	0.001		0	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records. ORPHAN SUMMARY

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

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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

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

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

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 11/11/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 12/01/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/15/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 11/01/2020
Date Data Arrived at EDR: 11/11/2020
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 02/10/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

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

SWF/LF: Solid Waste Facilities List

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

Date of Government Version: 09/29/2020
Date Data Arrived at EDR: 09/30/2020
Date Made Active in Reports: 12/18/2020
Number of Days to Update: 79

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

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

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 11/11/2020
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 02/10/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

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

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

State and tribal registered storage tank lists

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

Date of Government Version: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

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

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 11/11/2020
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/10/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 02/26/2020
Date Data Arrived at EDR: 02/27/2020
Date Made Active in Reports: 05/05/2020
Number of Days to Update: 68

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 01/13/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
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: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

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

Date of Government Version: 12/01/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/15/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

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

Date of Government Version: 12/01/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/15/2021
Number of Days to Update: 82

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

VCS: Voluntary Cleanup Program Sites

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

Date of Government Version: 12/29/2020
Date Data Arrived at EDR: 12/29/2020
Date Made Active in Reports: 03/17/2021
Number of Days to Update: 78

Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

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

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects

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

Date of Government Version: 11/01/2020
Date Data Arrived at EDR: 11/11/2020
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 02/10/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/16/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Old Closed SW Disposal Sites

A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 07/08/2003
Date Made Active in Reports: 07/18/2003
Number of Days to Update: 10

Source: Department of Environmental Quality
Telephone: 503-229-5409
Last EDR Contact: 07/08/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facility Location Listing

A listing of recycling facility locations.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 78

Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

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

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

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

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

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 10/07/2002
Date Made Active in Reports: 10/22/2002
Number of Days to Update: 15
Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

AOC COL: Columbia Slough
Columbia Slough waterway boundaries.

Date of Government Version: 08/10/2005
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/16/2006
Number of Days to Update: 30
Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CDL 2: Clandestine Drug Lab Site Listing
A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 10/08/2020
Date Data Arrived at EDR: 10/27/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 79
Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

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

Date of Government Version: 06/29/2020
Date Data Arrived at EDR: 06/30/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 78

Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

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

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Site Contamination Listing

Site locations where pfas contamination has been detected.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/31/2020
Number of Days to Update: 83

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/16/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

SPILLS: Spill Data

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

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 03/15/2021
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents

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

Date of Government Version: 10/08/2020
Date Data Arrived at EDR: 10/27/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 79

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

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

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

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

Other Ascertainable Records

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

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

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 09/29/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

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

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

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

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

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

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/21/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

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

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

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

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/11/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

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

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

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

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

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

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

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

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

MLTS: Material Licensing Tracking System

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

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/05/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/02/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database

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

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

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

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

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

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

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

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

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

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

US MINES: Mines Master Index File

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

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

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

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 10/03/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

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

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 73

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

AIRS: Oregon Title V Facility Listing
A listing of Title V facility source and emissions information.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/30/2020
Date Made Active in Reports: 03/17/2021
Number of Days to Update: 77

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Sites Listing
A listing of coal ash disposal sites.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/06/2020
Date Made Active in Reports: 05/14/2020
Number of Days to Update: 69

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 10/23/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 0

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Annually

ENF: Enforcement Action Listing
Enforcement actions

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 03/03/2021
Number of Days to Update: 1

Source: Department of Environmental Quality
Telephone: 503-229-5696
Last EDR Contact: 03/02/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/27/2019
Date Made Active in Reports: 09/11/2019
Number of Days to Update: 76

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

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

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/02/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 8

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey
Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/27/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 79

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/15/2020
Number of Days to Update: 77

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 77

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

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

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/15/2021
Number of Days to Update: 83

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

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

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

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

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

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

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

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

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

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

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

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

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

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

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

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

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

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

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

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

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

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

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/27/2013
Number of Days to Update: 179

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

OTHER DATABASE(S)

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

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

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

Electric Power Transmission Line Data

Source: Endeavor Business Media

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

AHA Hospitals:

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

Medical Centers: Provider of Services Listing

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

Nursing Homes

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

Public Schools

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

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

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

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

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

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FOLSOM ROAD MILL CREEK BRIDGE
FOLSOM ROAD
ALBANY, OR 97322

TARGET PROPERTY COORDINATES

Latitude (North):	44.644997 - 44° 38' 41.99''
Longitude (West):	122.954685 - 122° 57' 16.87''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	503593.6
UTM Y (Meters):	4943299.5
Elevation:	255 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6068586 CRABTREE, OR
Version Date:	2014

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

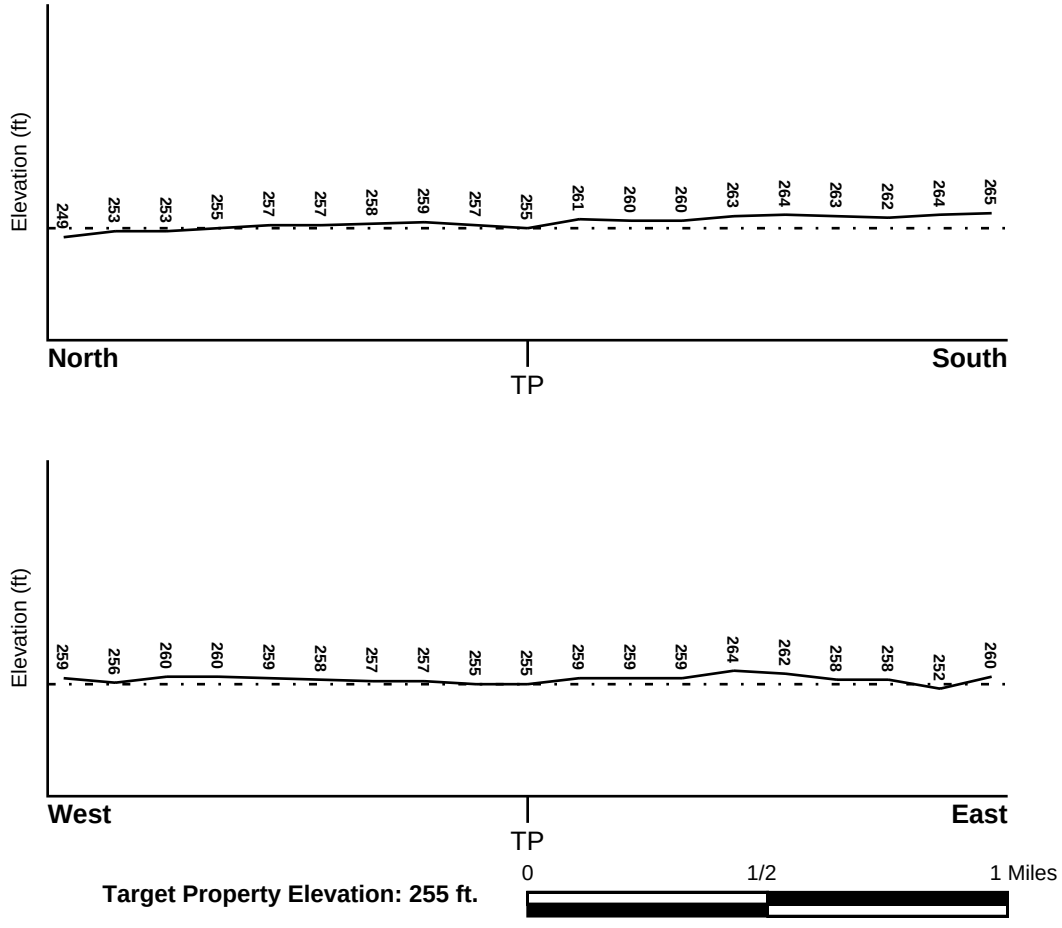
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
41047C1025G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

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

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

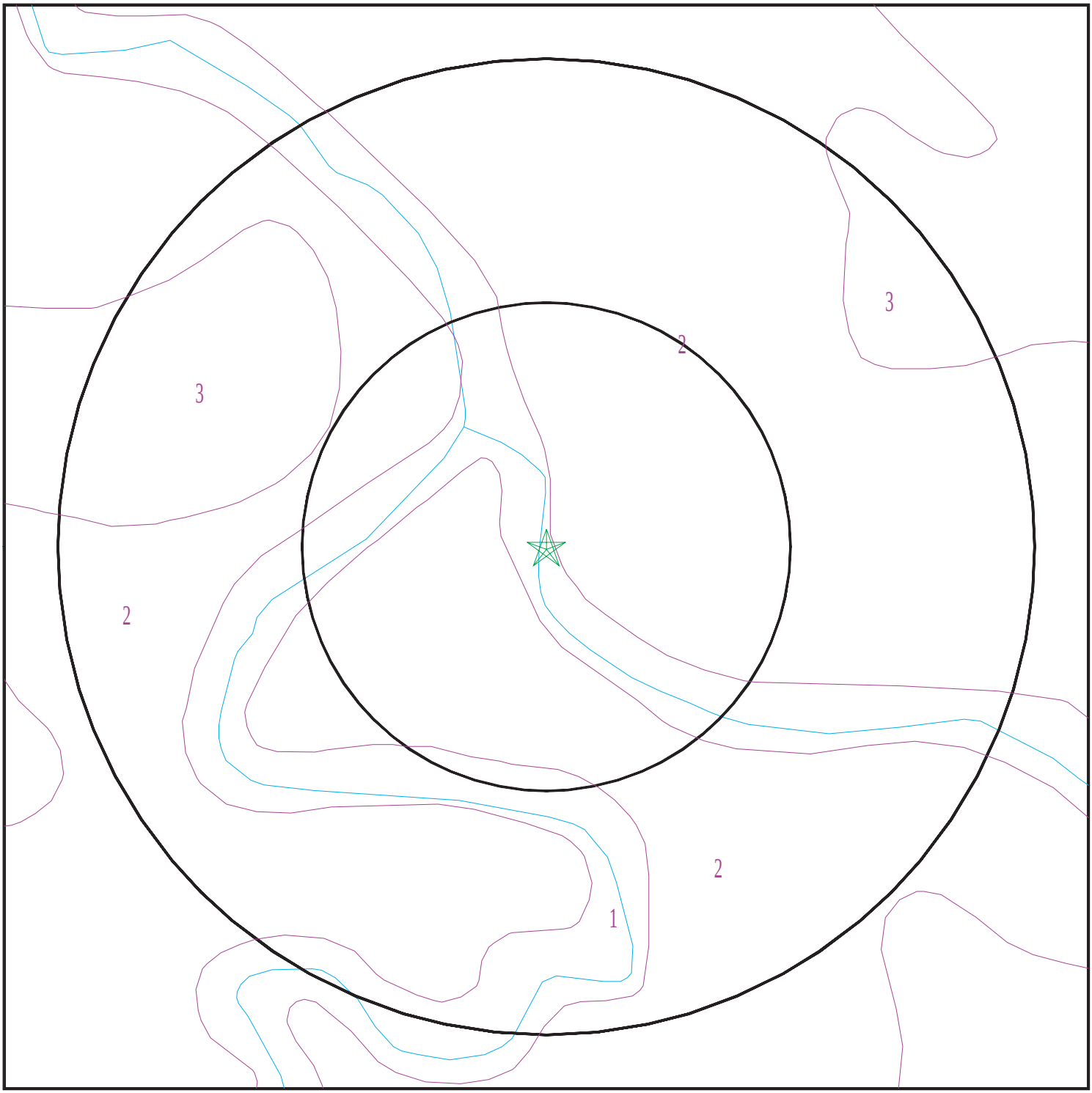
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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 - 6413815.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Folsom Road Mill Creek Bridge	CLIENT:	Cascade Earth Sciences
ADDRESS:	Folsom Road Albany OR 97322	CONTACT:	Jessica Penetar
LAT/LONG:	44.644997 / 122.954685	INQUIRY #:	6413815.2s
		DATE:	March 19, 2021 4:19 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: McBee

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Cloquato

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 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: 7.3 Min: 6.1
2	20 inches	59 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: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Newberg

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	18 inches	27 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	27 inches	63 inches	loamy fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 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

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000990464	1/8 - 1/4 Mile NE
B4	USGS40000990460	1/8 - 1/4 Mile WNW
C5	USGS40000990471	1/4 - 1/2 Mile NNW
D7	USGS40000990447	1/4 - 1/2 Mile SE
E15	USGS40000990466	1/2 - 1 Mile West

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

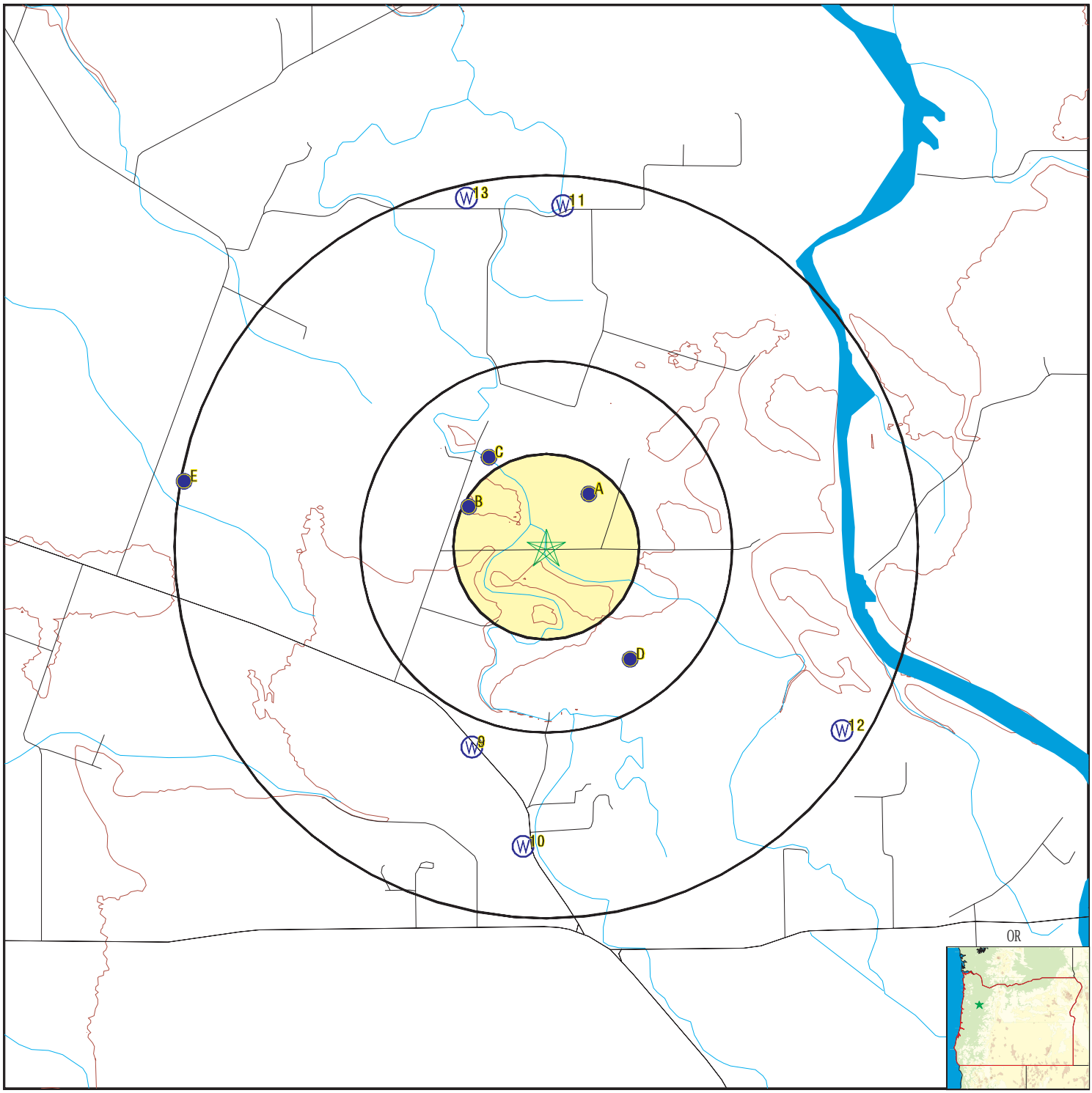
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	ORW600000002429	1/8 - 1/4 Mile NE
B3	ORW600000002431	1/8 - 1/4 Mile WNW
C6	ORW600000002430	1/4 - 1/2 Mile NNW
D8	ORW600000002432	1/4 - 1/2 Mile SE
9	ORW600000001726	1/2 - 1 Mile SSW
10	ORW600000001728	1/2 - 1 Mile South
11	ORW600000011826	1/2 - 1 Mile North
12	ORW600000001725	1/2 - 1 Mile ESE
13	ORW600000001684	1/2 - 1 Mile NNW
E14	ORW600000002563	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 6413815.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Folsom Road Mill Creek Bridge	CLIENT:	Cascade Earth Sciences
ADDRESS:	Folsom Road Albany OR 97322	CONTACT:	Jessica Penetar
LAT/LONG:	44.644997 / 122.954685	INQUIRY #:	6413815.2s
		DATE:	March 19, 2021 4:19 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NE
1/8 - 1/4 Mile
Higher

OR WELLS **ORW600000002429**

Well Log ID:	LINN 6304	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	250

A2
NE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000990464**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	11S/02W-05ABD	Type:	Well
Description:	Not Reported	HUC:	17090006
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19490000
Well Depth:	28	Well Depth Units:	ft
Well Hole Depth:	28	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1949
Feet below surface:	16.00	Feet to sea level:	Not Reported
Note:	Not Reported		

B3
WNW
1/8 - 1/4 Mile
Higher

OR WELLS **ORW600000002431**

Well Log ID:	LINN 6307	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	251

B4
WNW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000990460**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	11S/02W-05BAD6	Type:	Well
Description:	Not Reported	HUC:	17090006
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19611201
Well Depth:	22.5	Well Depth Units:	ft
Well Hole Depth:	22.5	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1961-12-01
Feet below surface:	9.00	Feet to sea level:	Not Reported
Note:	Not Reported		

C5
NNW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000990471**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	11S/02W-05BAA	Type:	Well
Description:	Not Reported	HUC:	17090006
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19550304
Well Depth:	28	Well Depth Units:	ft
Well Hole Depth:	28	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1955-05-01
Feet below surface:	8.00	Feet to sea level:	Not Reported
Note:	Not Reported		

C6
NNW
1/4 - 1/2 Mile
Higher

OR WELLS **ORW600000002430**

Well Log ID:	LINN 6310	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	250

D7
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000990447**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	11S/02W-05DAC	Type:	Well
Description:	Not Reported	HUC:	17090006
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19531000
Well Depth:	30	Well Depth Units:	ft
Well Hole Depth:	30	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1953-10
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
D8 **SE** **1/4 - 1/2 Mile** **Higher**	**OR WELLS**	**ORW600000002432**

Well Log ID:	LINN 6316	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	260

	Database	EDR ID Number
9 **SSW** **1/2 - 1 Mile** **Higher**	**OR WELLS**	**ORW600000001726**

Well Log ID:	LINN 6318	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	260

	Database	EDR ID Number
10 **South** **1/2 - 1 Mile** **Higher**	**OR WELLS**	**ORW600000001728**

Well Log ID:	LINN 6364	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	260

	Database	EDR ID Number
11 **North** **1/2 - 1 Mile** **Lower**	**OR WELLS**	**ORW600000011826**

Well Log ID:	LINN 58307	Last Update:	10/06/2009
Well Tag:	92448	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	245

	Database	EDR ID Number
12 **ESE** **1/2 - 1 Mile** **Higher**	**OR WELLS**	**ORW600000001725**

Well Log ID:	LINN 7117	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	265

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

13
NNW
1/2 - 1 Mile
Lower

OR WELLS **ORW600000001684**

Well Log ID:	LINN 4388	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	0
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	247

E14
West
1/2 - 1 Mile
Lower

OR WELLS **ORW600000002563**

Well Log ID:	LINN 6334	Last Update:	01/01/1990
Well Tag:	0	State Obs Well #:	520
Observation Well:	Not Reported	Recorder Well:	Not Reported
Obs Well Flag:	Not Reported	Surface Elevation:	251

E15
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000990466**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	11S/02W-06ABD	Type:	Well
Description:	Not Reported	HUC:	17090006
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19560101
Well Depth:	74	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for LINN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

HYDROLOGIC INFORMATION

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

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

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

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

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

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

OTHER STATE DATABASE INFORMATION

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

RADON

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

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Folsom Road Mill Creek Bridge

Folsom Road

Albany, OR 97322

Inquiry Number: 6413815.8

March 19, 2021

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

03/19/21

Site Name:

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
EDR Inquiry # 6413815.8

Client Name:

Cascade Earth Sciences
3511 Pacific Boulevard SW
Albany, OR 97321
Contact: Jessica Penetar

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

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1994	1"=500'	Acquisition Date: May 23, 1994	USGS/DOQQ
1982	1"=500'	Flight Date: July 10, 1982	USDA
1976	1"=500'	Flight Date: July 28, 1976	USGS
1967	1"=500'	Flight Date: August 20, 1967	USGS
1955	1"=500'	Flight Date: July 10, 1955	USGS
1948	1"=500'	Flight Date: June 28, 1948	USDA
1936	1"=500'	Flight Date: January 01, 1936	USDA

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


INQUIRY #: 6413815.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6413815.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6413815.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6413815.8

YEAR: 2006

= 500'

N

EDR


INQUIRY #: 6413815.8
YEAR: 1994
= 500'
N
EDR


INQUIRY #: 6413815.8
YEAR: 1982
= 500'
N
EDR

INQUIRY #: 6413815.8

YEAR: 1976

= 500'

N

EDR

INQUIRY #: 6413815.8

YEAR: 1967

= 500'

N

EDR


INQUIRY #: 6413815.8
YEAR: 1955
= 500'
N
EDR

INQUIRY #: 6413815.8

YEAR: 1948

= 500'

N

EDR

INQUIRY #: 6413815.8

YEAR: 1936

= 500'

N

EDR

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322

Inquiry Number: 6413815.3
March 19, 2021

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

03/19/21

Site Name:

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
EDR Inquiry # 6413815.3

Client Name:

Cascade Earth Sciences
3511 Pacific Boulevard SW
Albany, OR 97321
Contact: Jessica Penetar

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

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

Certified Sanborn Results:

Certification # E7C6-44F3-A8E1

PO # NA

Project Folsom Road Mill Creek

UNMAPPED PROPERTY

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

Sanborn® Library search results

Certification #: E7C6-44F3-A8E1

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

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

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

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

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322

Inquiry Number: 6413815.4
March 19, 2021

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

03/19/21

Site Name:

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
EDR Inquiry # 6413815.4

Client Name:

Cascade Earth Sciences
3511 Pacific Boulevard SW
Albany, OR 97321
Contact: Jessica Penetar

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

Search Results:

P.O.# NA

Project: Folsom Road Mill Creek

Coordinates:

Latitude:	44.644997 44° 38' 42" North
Longitude:	-122.954685 -122° 57' 17" West
UTM Zone:	Zone 10 North
UTM X Meters:	503593.50
UTM Y Meters:	4943516.30
Elevation:	255.60' above sea level

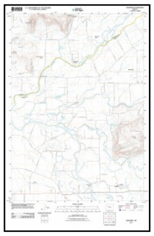
Maps Provided:

2014
1975
1970
1957
1944
1924
1922
1921

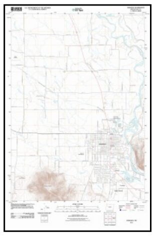
Topo Sheet Key

[illegible]

2014 Source Sheets

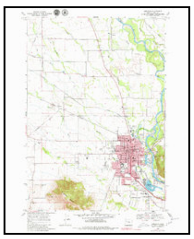


Crabtree
2014
7.5-minute, 24000



Lebanon
2014
7.5-minute, 24000

1975 Source Sheets



Lebanon
1975
7.5-minute, 24000
Aerial Photo Revised 1967

Crabtree
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1970 Source Sheets

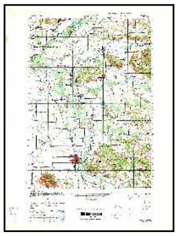
Crabtree
1970
7.5-minute, 24000
Aerial Photo Revised 1967

1957 Source Sheets

Lebanon
1957
15-minute, 62500

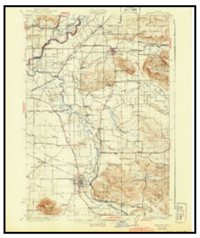
Topo Sheet Key

1944 Source Sheets



LEBANON
1944
15-minute, 50000

1924 Source Sheets



Lebanon
1924
15-minute, 62500

1922 Source Sheets

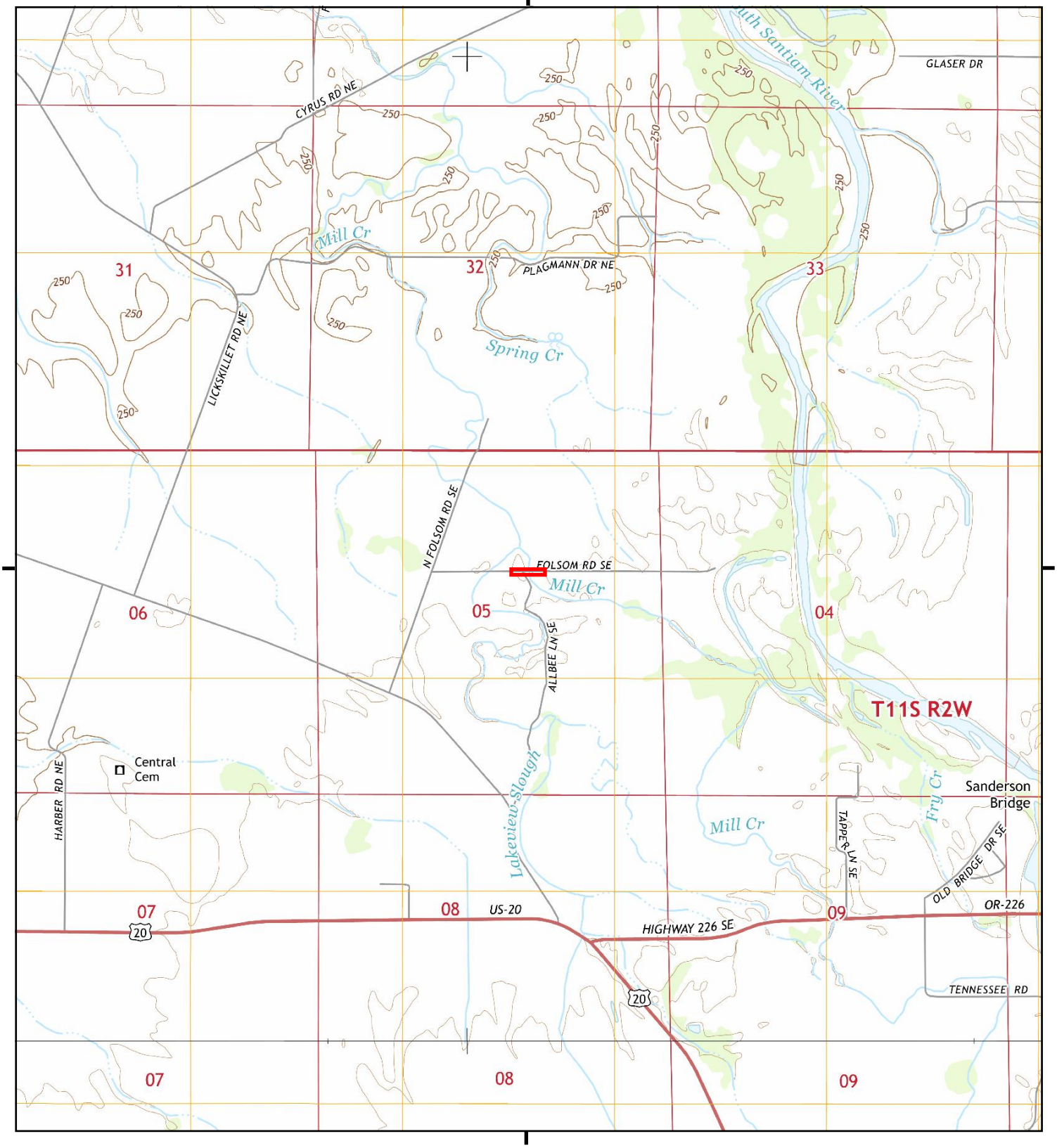
Lebanon
1922
15-minute, 48000

1921 Source Sheets

Lebanon
1921
15-minute, 62500

Historical Topo Map

2014



0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Crabtree, 2014, 7.5-minute
S, Lebanon, 2014, 7.5-minute

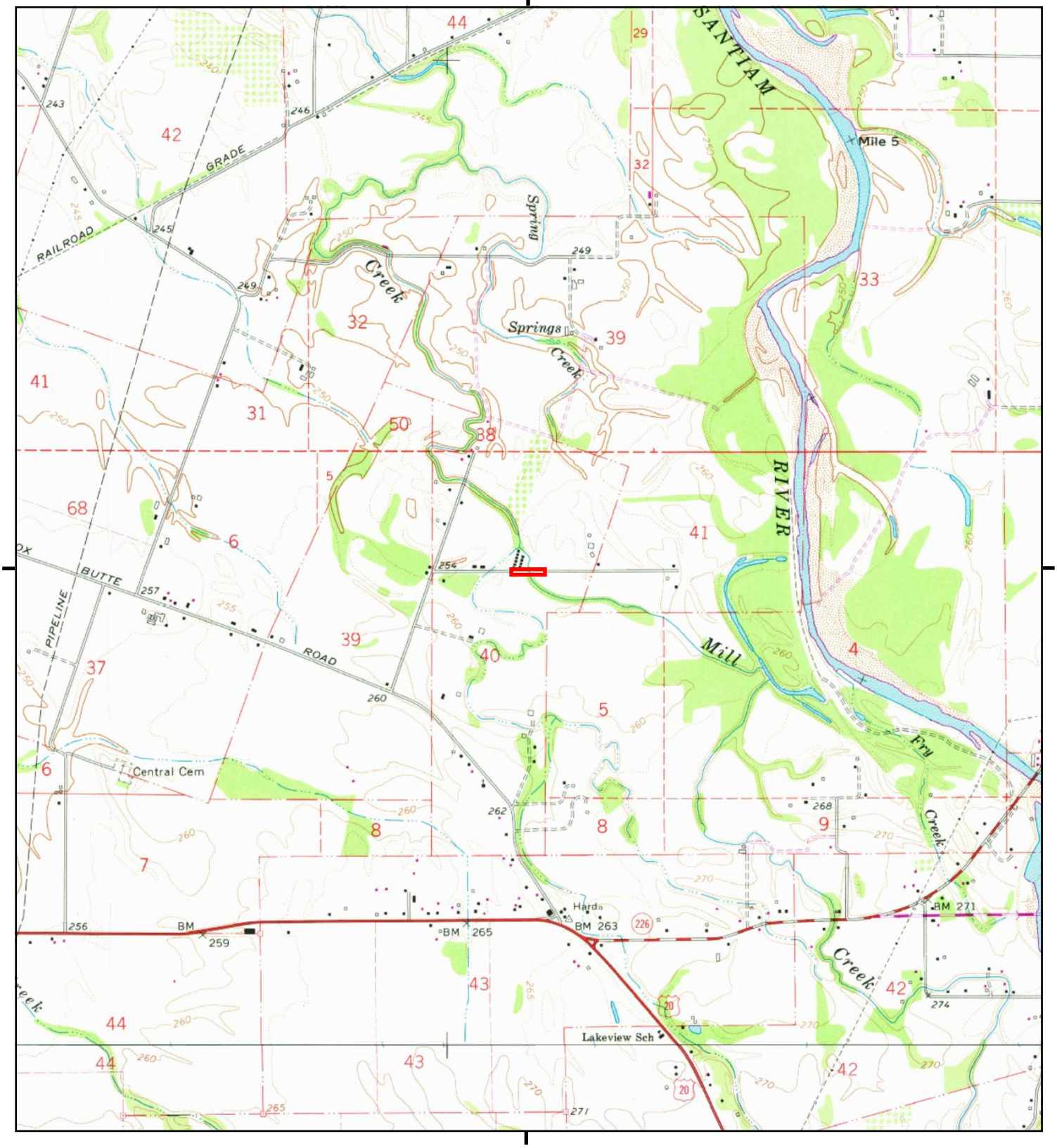
Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N

6413815 - 4 5

Historical Topo Map

1975



0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Crabtree, 1975, 7.5-minute
S, Lebanon, 1975, 7.5-minute

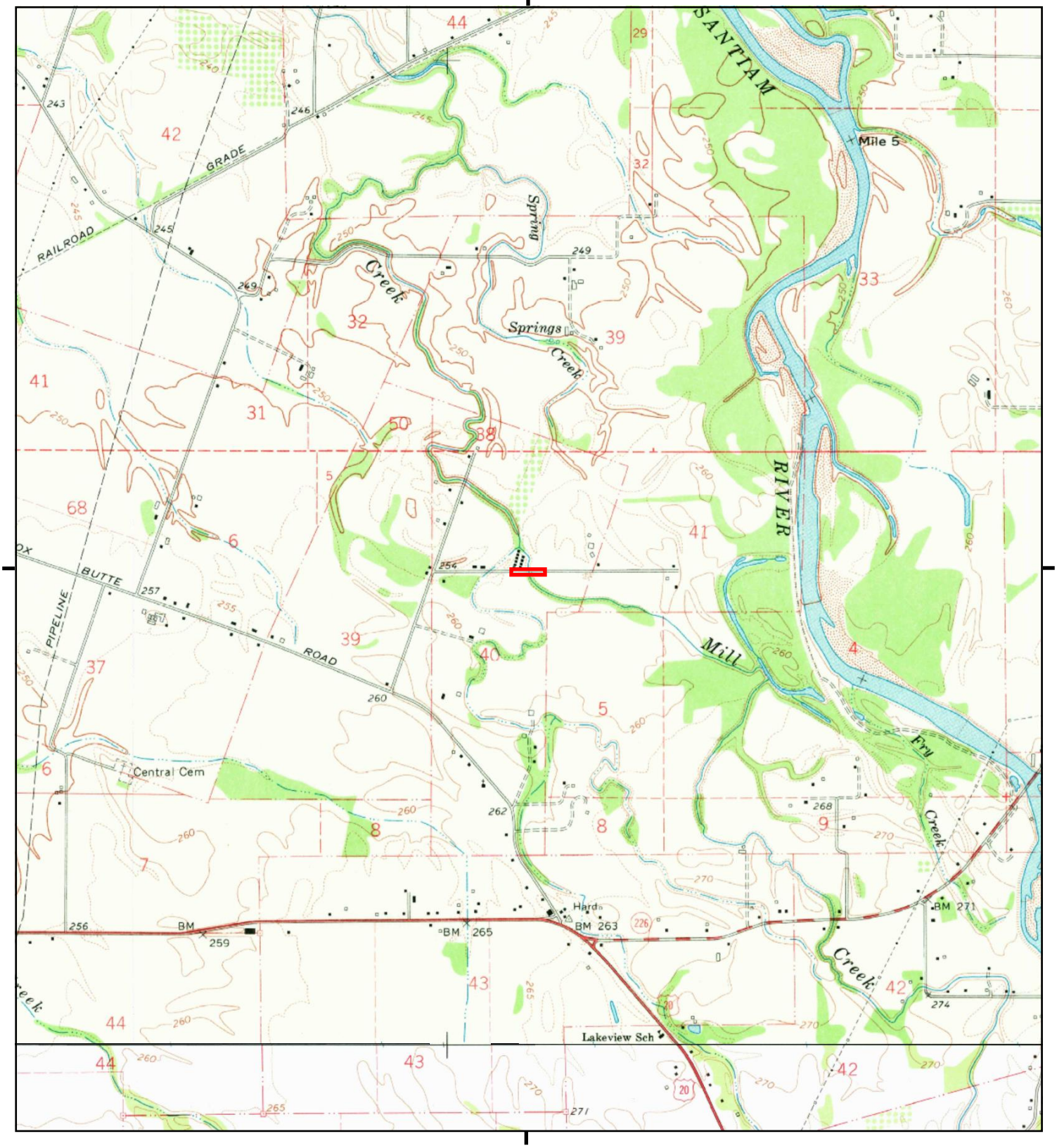
Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N

6413815 - 4 6

Historical Topo Map

1970



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W E
SW S SE

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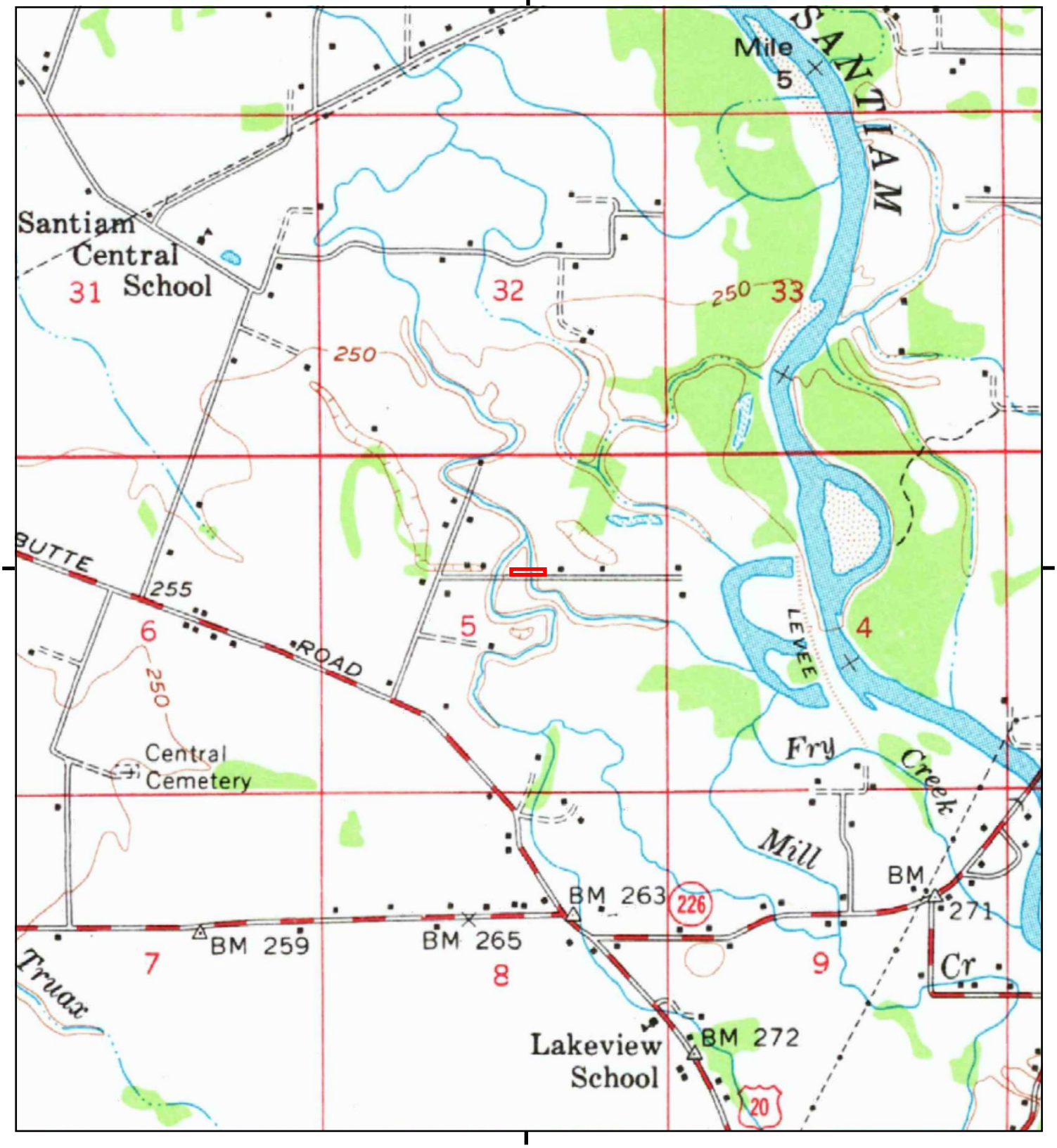
Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N

6413815 - 4 7



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W E
SW S SE

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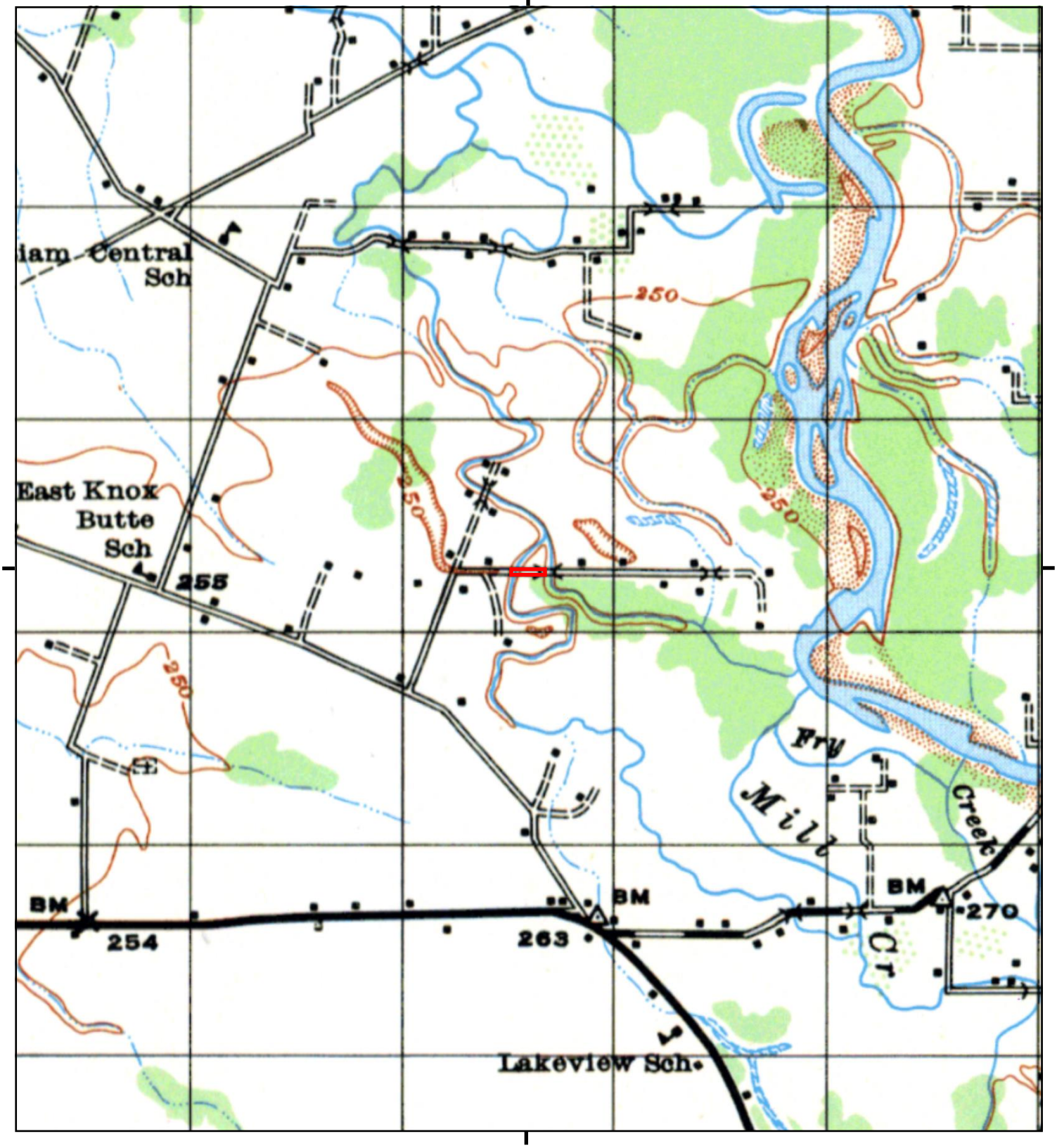
Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N



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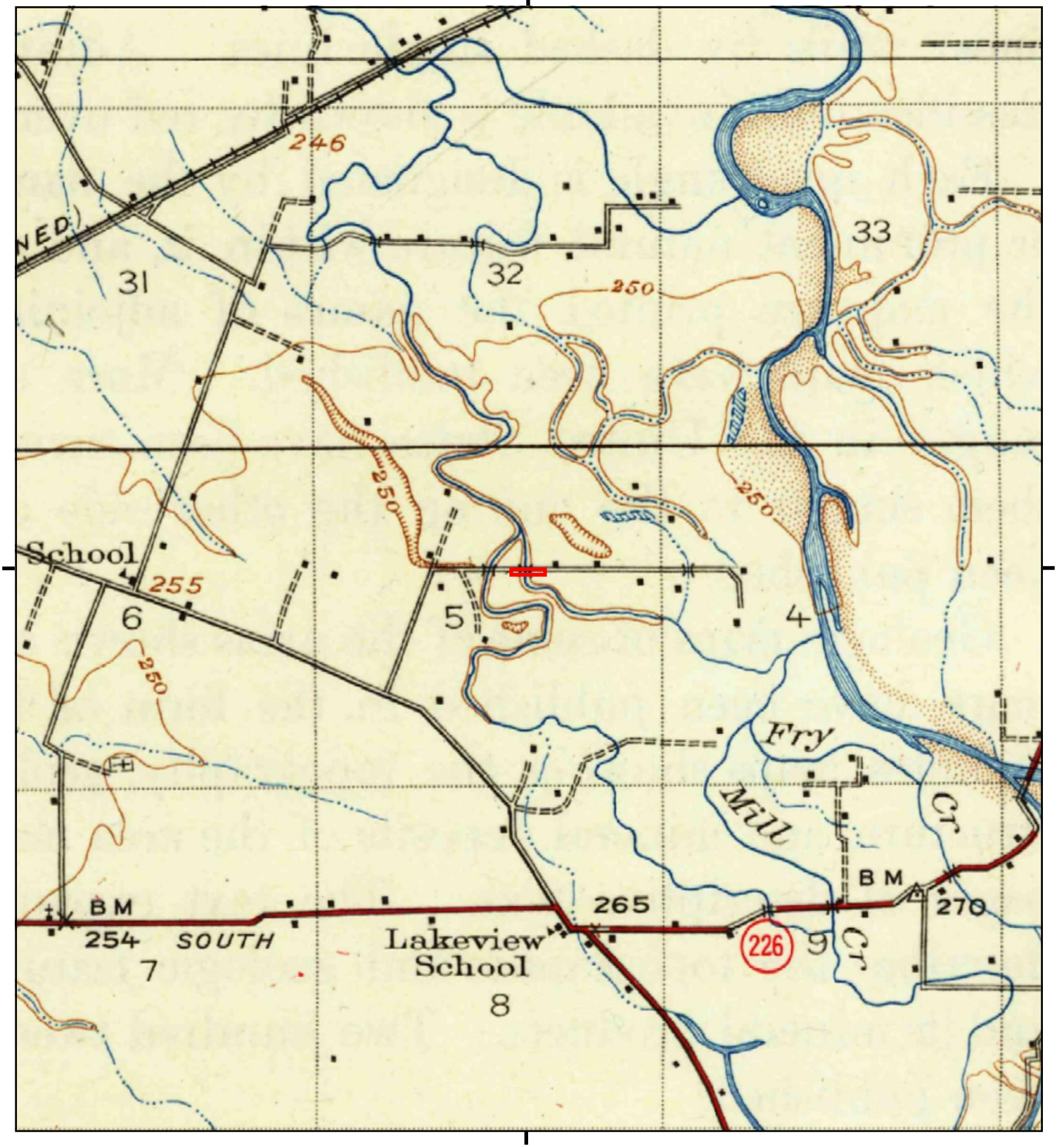
NW N NE
W E
SW S SE

TP, LEBANON, 1944, 15-minute

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N



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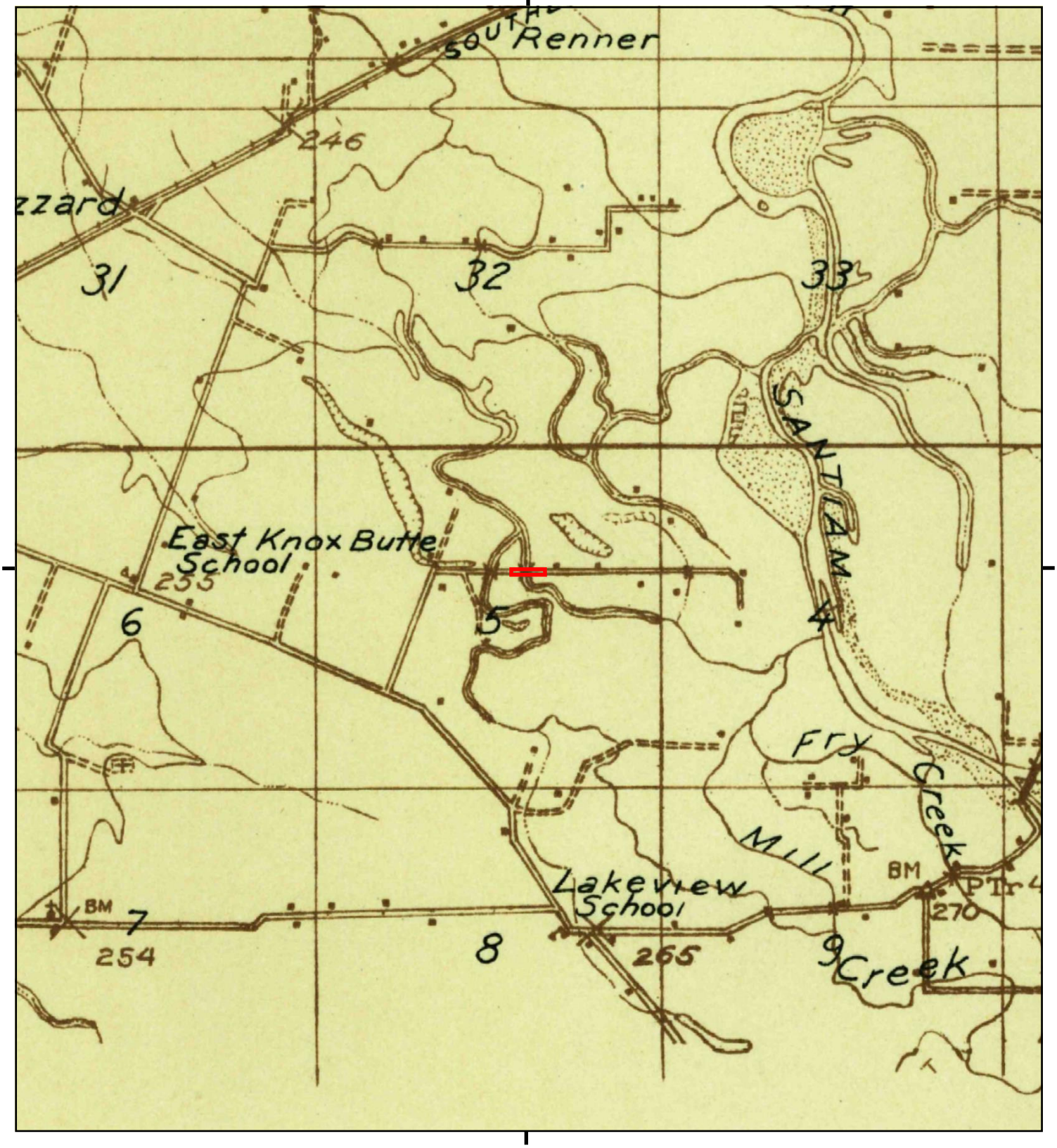
W E
SW S SE

TP, Lebanon, 1924, 15-minute

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N



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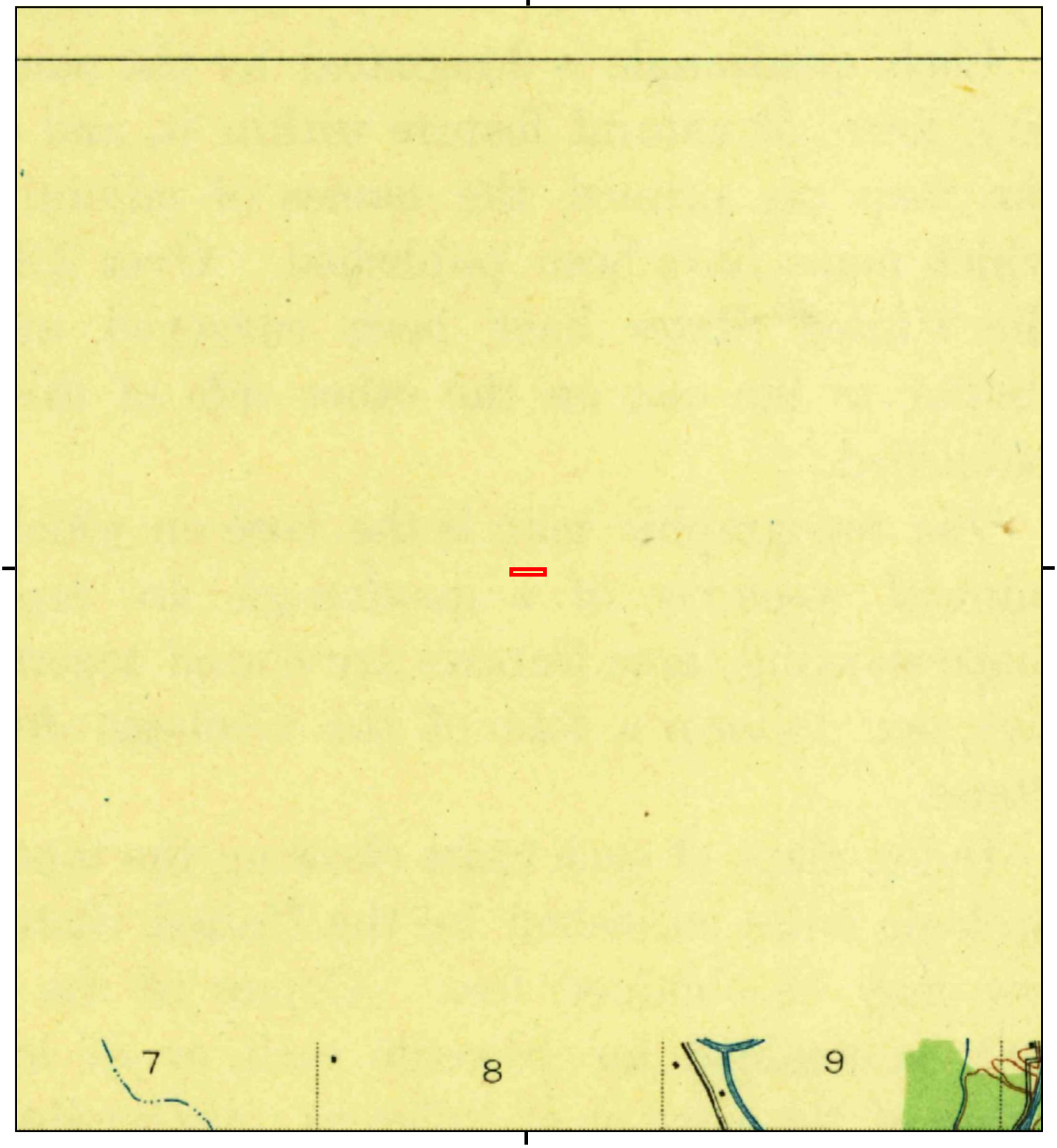
W E
SW S SE

TP, Lebanon, 1922, 15-minute

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N



0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Lebanon, 1921, 15-minute

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322
Cascade Earth Sciences

N

Folsom Road Mill Creek Bridge
Folsom Road
Albany, OR 97322

Inquiry Number: 6413815.5
March 24, 2021

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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

EXECUTIVE SUMMARY

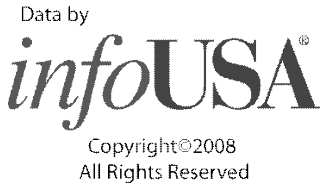
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2017	☑	☐	EDR Digital Archive
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1967	☐	☐	Johnson's City Directory
1964	☐	☐	Johnson's City Directory
1958	☐	☐	Johnson's City Directory

FINDINGS

TARGET PROPERTY STREET

Folsom Road
Albany, OR 97322

Year	*CD Image*	*Source*	
FOLSOM RD SE			
2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
2000	pg A5	EDR Digital Archive	
1995	pg A6	EDR Digital Archive	
1992	pg A7	EDR Digital Archive	
1967	-	Johnson's City Directory	Street not listed in Source
1964	-	Johnson's City Directory	Street not listed in Source
1958	-	Johnson's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 2017

36019	BOSHART, STANLEY J
36053	BUCK, BENJAMIN D
36054	WEST, GLENDA R
36083	KEENER, TRAVIS W
36103	HANSLOVAN, JUNIOR W
36215	FRYMAN, JIM L
36251	FRYMAN, DENNIS D
36271	RINKER, JOANNA L
36388	POMEROY, MARLIN G
36395	GRIFFIN, KIMBERLY R

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 2014

36019	BOSHART, STANLEY J
	SAMPLES, JON
36053	FOLSOM, LARRY E
36054	WEST, GLENDA R
36083	FOLSOM, KYLE E
36103	HANSLOVAN, JUNIOR W
36215	FRYMAN, JIM L
36251	FRYMAN, JOANN A
36271	RINKER, JOANNA L
36388	POMEROY, MARLIN G
36395	MOULLET, GARLAND D

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 2010

36053 FOLSOM, LARRY E
36054 OCCUPANT UNKNOWN,
36083 FOLSOM, MARY E
36103 HANSLOVAN, WARD J
36215 BECKER, CHARLES O
36251 FRYER, ALFRED D
36271 OCCUPANT UNKNOWN,
36388 POMEROY, MARLIN G
36395 MOULLETT, GERALD D

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 2005

36019 FOLSOM, KEITH F
36053 FOLSOM, LARRY E
36054 WEST, GLENDA R
36083 FOLSOM, MARY E
36103 HANSLOVAN, WARD J
36215 BLUEGRASS MANAGEMENT CONSULTING INC
FACER, DAVID J
SOUTHFORK AG
36251 HARMON, RALPH E
36271 SMITH, BREYANE
36388 POMEROY, MARLIN G
36395 MOULLET, GERALD D

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 2000

36023 OCCUPANT UNKNOWN,
36053 FOLSOM, LARRY
36054 OCCUPANT UNKNOWN,
36083 FOLSOM, MARY E
36103 HANSLOVAN, JUNIOR W
36215 SHUMAKER, TERRY
36251 ELITE, KIM K
36271 OCCUPANT UNKNOWN,
36388 POMEROY, MARLIN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 1995

36019 FOLSOM, F I
36023 BURDICK, E L
36053 FOLSOM, LARRY
36054 HUSTON, ZANE G
36083 FOLSOM, MARY E
36103 HANSLOVAN, JUNIOR W
36215 SHUMAKER, T L
36251 BUTLER, DEVONI
36271 TROUT, GARY
36388 POMEROY, MARLIN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

FOLSOM RD SE 1992

36019 FOLSOM, F I
36023 BISHOP, GEORGE C
36054 HUSTON, ZANE G
36083 FOLSOM, MARY E
36103 HANSLOVAN, JUNIOR W
36388 POMEROY, MARLIN

Appendix B.

Site Photographs

Photograph 1.

View to the northeast of the Project Corridor.
(May 13, 2021, Valley)

Photograph 2.

View to the northwest of the Project Corridor.
(May 13, 2021, Valley)

Photograph 3.

View to the southeast of the Project Corridor.
(May 13, 2021, Valley)

Photograph 4.

View to the southwest of the Project Corridor.
(May 13, 2021, Valley)

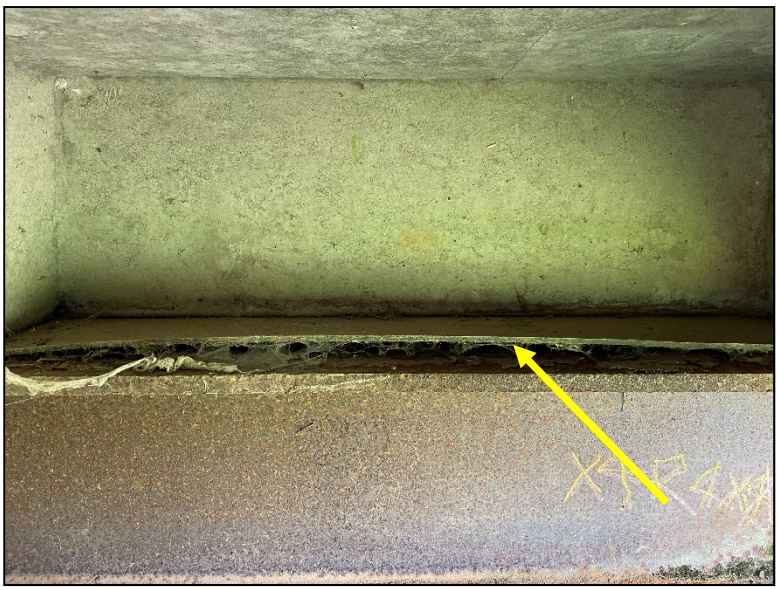
Photograph 5.

View to the south of Mill Creek.
(May 13, 2021, Valley)

Photograph 6.

Asbestos Samples:
AS-01; 07: shingle below steel
AS-02; 08: brown woven material
AS-03; 09: black mastic on piling

(May 19, 2021, Valley)



Photograph 7.

Asbestos samples AS-04; 10:
Rubbery spacer.
(May 19, 2021, Valley)

Photograph 8.

Asbestos samples AS-05; 11:
Mastic / black tar
(May 19, 2021, Valley)

Photograph 9.

Asbestos samples AS-06; 12:
Foam insulation
(May 19, 2021, Valley)

Photograph 10.

Asbestos samples AS-13; 14:
Paper liner/spacer
(May 19, 2021, Valley)

Photograph 11.

Subsurface soil sampling activities, view to the east
(April 2, 2021, Valley)

Photograph 12.

Near-surface soil sampling activities, view to the east
(May 13, 2021, Valley)

Appendix C.

Site Reconnaissance Checklist and Field Forms

INITIAL SITE ASSESSMENT (ISA) CHECKLIST

Project Information

District:	County: *Linn*	Route: *Road 0651*	Milepost: *0.65*
Description: *Folsom Road – Mill Creek*			
Does the project have potential hazardous waste involvement? *Yes*			

Screening Criteria

1. Project Features: New R/W? N	Excavation? *Y*	Relocate Utilities? *N*
2. Land Use History and Development Setting (urban/rural; industrial, commercial, agricultural, housing other –list)		
Current land uses: *Bridge and public roadway* Previous land uses: *Bridge, roads* Adjacent land uses: *roadway, residential, agricultural*		
3. In-house record review *Yes*		
4. Any known hazardous waste sites in vicinity? *No* If yes, identify and explain.		

Optional Records

County Assessor	Fire Dept	Sanborn Maps *X*	Other

Take photos of sites or sketch

Visual Inspection

Storage Structures: *No*	Contamination: *No*	Potential asbestos containing materials: *Yes*
Underground tanks	Surface Staining	Buildings
Aboveground tanks	Oil sheen	Sprayed-on fireproofing
Sumps	Odors	Pipe wrap
Ponds	Stress vegetation	Floor tiles
Transformers	Other	Siding
Other		Ceiling tiles
		Acoustical plaster
Sites:	Sites	Sites: *Pile caps*

Comments: **Conducted by: Jessica Penetar-Valley**

See laboratory report for results of asbestos survey and soil sampling

CES STANDARD DAILY FIELD REPORT

Project: Linn County - Folsom Rd	**Date:** 4/2/21
Location: Folsom Rd - Mill Creek **Project #:**	**Billing Group #:** ___ **Task #:** ___
CES Personnel: J. Penter	
Visitors: Foundation Eng	
Weather: Clear 45°F	
CES Equipment Used? ☒ No ☐ Yes (Equipment Usage Report Attached ☐ Yes ☐ No)	
CES Equipment Onsite: -	
Rental Equipment Onsite: -	

Time*	Description of Work
932	J. Penter of CES on-site to collect soil samples from foundation Engineering boreholes
950	Collect SS-B1 from Foundation Boring B-1 on west side of bridge. Composite of soils from 6" - 5' bgs. Samples gravelly from 6" - 2', less gravel from 2' - 4', minimal gravel 4' - 5' bgs, bentonite mixed in w/ soils from 2' - 5'.
1020	Collect SS-B2 from Foundation Boring B-2 on east side of bridge. Composite from ½" - 5' bgs. Gravelly from 0.5' - 1.5', Bentonite mixture from 1.5' - 5'.
1036	Brief Asbestos Inspection - piling caps to be sanded, some tar on pilings (wood pilings, some are metal) will need ladder. No pipe wrap. No joint compound in railing or concrete side. Surrounding area = farms + residences. Blackberries on South side of bridge, both east + west sides = inaccessible. North side - blackberries have been cut + sprayed.
	Fill out COC.
1045	JP off-site.

* Use the 24-hour clock entries required with task change or location change.

Notes Approved: JP

CES STANDARD DAILY FIELD REPORT

Project: Linn County, Folsom Rd Mill Creek		**Date:** 5/13/21
Location: Albany, OR	**Project #:**	**Billing Group #:** ___ **Task #:** ___
CES Personnel: J. Penetar		
Visitors: —		
Weather: Clear, breezy, 75°F		
CES Equipment Used? ☐ No ☒ Yes (Equipment Usage Report Attached ☐ Yes ☒ No)		
CES Equipment Onsite: Decon equipment, shovel, Auger		
Rental Equipment Onsite: —		

Time*	Description of Work
910	J. Penetar of Valley on-site for roadside soil sampling
950	Collect SS-03, 3-pt Composite 0-18" from North west side of bridge. Collect for NWTPH-Dx/Gx VOC, pest, herb, RCRA metals + PCB, + PAH Decon shovel.
1030	Collect SS-04, 3pt composite, 0-18" from Southwest side of bridge. Same analyses. Decon shovel
1105	Collect SS-05 from northeast side of bridge, 3-pt Composite, 0-18" Same analyses Decon Shovel
1145	Collect SS-06, 3-pt Composite from southeast corner of bridge. 0-18" Same analyses Clean up fill out COC. mostly JP
1205	Start site reconnaissance. Creek is stagnant. No Minimal flow towards north observed. Solid waste/general trash - paper, cups, bottles observed in creek + around project corridor. Creek is heavily vegetated. Overhead power lines on south side of bridge and crossing project corridor to north on east side of bridge. No transformers. Underground cable runs along north side of bridge. Project corridor surrounded by

* Use the 24-hour clock entries required with task change or location change.

Notes Approved: JP

CES DAILY FIELD REPORT

Project #: Linn County - Folsom Rd Mill Cr.	Date: 5/13/21

Time*	Description of Work
	Agricultural fields, excep in NW corner - several storage sheds and old farm equipment in a field. Large scraps of metal.
	Gravel roadways entrances in NE + SW corners to access ag fields. of bridge
	No staining or signs of distressed veg.
	Treated timber + steel pilings under bridge. Railing is metal + supported w/ treated timbers.
1227	JP off-site.

* Use the 24-hour clock entries required with task change or location change.

Notes Approved: JP

Valley

~~CES~~ STANDARD DAILY FIELD REPORT

Project:	Linn County - Folsom Rd	**Date:**	5/19/21
Location:	Albany, OR	**Project #:**	**Billing Group #:** ___ **Task #:** ___
CES Personnel:	J. Penetar, C. Cotton		
Visitors:	–		
Weather:	Cloudy, 55°F, partly sunny.		
CES Equipment Used?	☐ No ☒ Yes (Equipment Usage Report Attached ☐ Yes ☐ No)		
CES Equipment Onsite:	Ladder		
Rental Equipment Onsite:	–		

Time*	Description of Work
923	Valley on-site for Asbestos sampling. Inspect bridge for locations. See asbestos inspection Sheet.
1015	Valley off-site.

* Use the 24-hour clock entries required with task change or location change.

Notes Approved: _____

Asbestos Survey Field Data Sheet

Sampler Name: J. Penetar

Date: 5/19/21

Site: Folsom Rd - Mill Creek Bridge

Sample ID	Time	Material Description	Location	Condition	Friable?
AS-01	936	Shingle piling cap	piling cap on wooden piling	fair	Y
AS-02	938	Mastic - fabric appearance	piling cap on wooden piling	fair	Y
AS-03	941	Mastic - tar like	under asphalt cap	fair	No
AS-04	946	Rubber like spacer	between I-beam + concrete	fair	NO
AS-05	948	Mastic, black	between Concrete spans	Fair	NO
AS-06	950	Foam spacer / insulation	between concrete beams	fair	NO
AS-07	957	Shingle-like	piling cap on wooden piling	fair	Y
AS-08	959	Mastic - fabric Appearance	piling cap under asphalt	fair	Y
AS-09	1001	Mastic - tar like	piling cap, under asphalt / fabric	fair	NO
AS-10	1002	Rubber-like spacer	between I-beam + concrete	fair	NO
AS-11	1003	Foam Mastic, black	between concrete spans	fair	NO
AS-12	1004	foam spacer / insulation	between concrete spans	fair	NO
AS-13	1005	paper-like	on concrete beams	Poor fair	yes
AS-14	1006	" "	" "	poor	yes

CES

Appendix D.

Laboratory Analytical Data

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-103204-1
Client Project/Site: Folsom Rd - Mill Creek

For:
Valley Science and Engineering
3511 Pacific Blvd Sw
Albany, Oregon 97321

Attn: Jessica Penetar

Authorized for release by:
6/7/2021 3:15:30 PM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

Table of Contents

Case Narrative

Client: Valley Science and Engineering
Project/Site: Folsom Rd - Mill Creek

Job ID: 580-103204-1

Job ID: 580-103204-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-103204-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2021 11:15 AM. Unless otherwise noted below, the samples arrived in good condition. The temperature of the cooler at receipt was 21.7º C.

Subcontract non-Sister
See attached subcontract report.

Subcontract Work
Method Asbestos by EPA PLM Method 600/R-93/116: This method was subcontracted to Eurofins EMLab P&K. The subcontract laboratory certification is different from that of the facility issuing the final report.

Definitions/Glossary

Client: Valley Science and Engineering
Project/Site: Folsom Rd - Mill Creek

Job ID: 580-103204-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: Valley Science and Engineering
Project/Site: Folsom Rd - Mill Creek

Job ID: 580-103204-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103204-1	AS-01	Solid	05/19/21 09:36	05/20/21 11:15	
580-103204-2	AS-02	Solid	05/19/21 09:38	05/20/21 11:15	
580-103204-3	AS-03	Solid	05/19/21 09:41	05/20/21 11:15	
580-103204-4	AS-04	Solid	05/19/21 09:46	05/20/21 11:15	
580-103204-5	AS-05	Solid	05/19/21 09:48	05/20/21 11:15	
580-103204-6	AS-06	Solid	05/19/21 09:50	05/20/21 11:15	
580-103204-7	AS-07	Solid	05/19/21 09:57	05/20/21 11:15	
580-103204-8	AS-08	Solid	05/19/21 09:59	05/20/21 11:15	
580-103204-9	AS-09	Solid	05/19/21 10:01	05/20/21 11:15	
580-103204-10	AS-10	Solid	05/19/21 10:02	05/20/21 11:15	
580-103204-11	AS-11	Solid	05/19/21 10:03	05/20/21 11:15	
580-103204-12	AS-12	Solid	05/19/21 10:04	05/20/21 11:15	
580-103204-13	AS-13	Solid	05/19/21 10:05	05/20/21 11:15	
580-103204-14	AS-14	Solid	05/19/21 10:06	05/20/21 11:15	

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Report for:

Nathan Lewis
TestAmerica-Seattle
5755 8th Street East
Tacoma, WA 98424

Regarding: Project: 580-103204-1; Folsom Rd.-Mill Creek
EML ID: 2648203

Approved by:

Approved Signatory
Roshanak Kalantari

Dates of Analysis:
Asbestos PLM: 06-04-2021

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200945-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K
1010 N Central Avenue, Suite 390, Glendale, CA 91202
(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Seattle
C/O: Nathan Lewis
Re: 580-103204-1; Folsom Rd.-Mill Creek

Date of Sampling: 05-19-2021
Date of Receipt: 05-24-2021
Date of Report: 06-04-2021

ASBESTOS PLM REPORT

Total Samples Submitted:	14
Total Samples Analyzed:	14
Total Samples with Layer Asbestos Content > 1%:	0

Location: AS-01 (580-103204-1) Lab ID-Version‡: 12653781-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gravel	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: AS-02 (580-103204-2) Lab ID-Version‡: 12653782-1

Sample Layers	Asbestos Content
Brown/Black Tar	ND
Composite Non-Asbestos Content:	5% Cellulose
Sample Composite Homogeneity:	Good

Location: AS-03 (580-103204-3) Lab ID-Version‡: 12653783-1

Sample Layers	Asbestos Content
Black Tar	ND
Sample Composite Homogeneity:	Good

Location: AS-04 (580-103204-4) Lab ID-Version‡: 12653784-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: TestAmerica-Seattle
C/O: Nathan Lewis
Re: 580-103204-1; Folsom Rd.-Mill Creek

Date of Sampling: 05-19-2021
Date of Receipt: 05-24-2021
Date of Report: 06-04-2021

ASBESTOS PLM REPORT

Location: AS-05 (580-103204-5) Lab ID-Version‡: 12653785-1

Sample Layers	Asbestos Content
Black Tar	ND
Sample Composite Homogeneity:	Good

Location: AS-06 (580-103204-6) Lab ID-Version‡: 12653786-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity:	Good

Location: AS-07 (580-103204-7) Lab ID-Version‡: 12653787-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Gravel	ND
Composite Non-Asbestos Content:	10% Glass Fibers
Sample Composite Homogeneity:	Good

Location: AS-08 (580-103204-8) Lab ID-Version‡: 12653788-1

Sample Layers	Asbestos Content
Brown/Black Woven Material	ND
Composite Non-Asbestos Content:	35% Cotton
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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Client: TestAmerica-Seattle
C/O: Nathan Lewis
Re: 580-103204-1; Folsom Rd.-Mill Creek

Date of Sampling: 05-19-2021
Date of Receipt: 05-24-2021
Date of Report: 06-04-2021

ASBESTOS PLM REPORT

Location: AS-09 (580-103204-9) Lab ID-Version‡: 12653789-1

Sample Layers	Asbestos Content
Black Tar	ND
Sample Composite Homogeneity:	Good

Location: AS-10 (580-103204-10) Lab ID-Version‡: 12653790-1

Sample Layers	Asbestos Content
Black Non-Fibrous Material	ND
Sample Composite Homogeneity:	Good

Location: AS-11 (580-103204-11) Lab ID-Version‡: 12653791-1

Sample Layers	Asbestos Content
Black Tar	ND
Sample Composite Homogeneity:	Good

Location: AS-12 (580-103204-12) Lab ID-Version‡: 12653792-1

Sample Layers	Asbestos Content
Yellow Foam	ND
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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(866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: TestAmerica-Seattle
C/O: Nathan Lewis
Re: 580-103204-1; Folsom Rd.-Mill Creek

Date of Sampling: 05-19-2021
Date of Receipt: 05-24-2021
Date of Report: 06-04-2021

ASBESTOS PLM REPORT

Location: AS-13 (580-103204-13)

Lab ID-Version‡: 12653793-1

Sample Layers	Asbestos Content
White Fibrous Material	ND
Composite Non-Asbestos Content:	80% Cellulose
Sample Composite Homogeneity:	Good

Location: AS-14 (580-103204-14)

Lab ID-Version‡: 12653794-1

Sample Layers	Asbestos Content
White Fibrous Material	ND
Composite Non-Asbestos Content:	99% Cellulose
Sample Composite Homogeneity:	Good

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

580-103204 Chain of Custody

400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
ve, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
ve,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
), Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: 103204

CLIENT: Valley Science + Engineering
REPORT TO: Jessica Peretar
ADDRESS: 3511 Pacific Blvd SW
Albany, OR 97321
PHONE: 609-227-1195 FAX:

INVOICE TO: Jessica.peretar@valleyent.com
P.O. NUMBER:

PROJECT NAME: Folsom Rd - Mill Creek
PROJECT NUMBER:
SAMPLED BY: J. Peretar

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses
10 STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses
5 STD. | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE: Asbestos	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	AS-01	5/19/21 936	X				
2	AS-02	938					
3	AS-03	941					
4	AS-04	946					
5	~~QA~~ AS-05	948					
6	AS-06	950					
7	AS-07	957					
8	AS-08	959					
9	AS-09	1001					
10	AS-10	1002					

Therm. ID: IR9 Cor: 21.7° Unc: 21.5°
Cooler Dsc: Box
Packing:
Cust. Seal: Yes X No
Blue Ice, Wet, Dry None
FedEx:
UPS: 2nd
Lab Cour:
Other:

RELEASED BY: Jim Pasko
PRINT NAME: Jessica Peretar FIRM: Valley
DATE: 5/19/21 TIME: 1200

RECEIVED BY: Tom Blankenship
PRINT NAME: FIRM: EFGS
DATE: 5/20/21 TIME: 1115

RELEASED BY:
PRINT NAME: FIRM:
DATE: TIME:

RECEIVED BY:
PRINT NAME: FIRM:
DATE: TIME:

ADDITIONAL REMARKS:

TEMP:

PAGE 1 OF 2

TAL-1006(0408)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E. First Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave,Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: Valley Science + Eng
REPORT TO: Jessica Peretar
ADDRESS:
PHONE: 609-227-1195 FAX:

INVOICE TO:

P.O. NUMBER:

PROJECT NAME: Folsom Rd - Mill Creek
PROJECT NUMBER:
SAMPLED BY: J. Peretar

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 STD. | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 STD. | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE / REQUESTED ANALYSES: As 6010	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1	AS-11	5/19/21 1003	X				
2	AS-12	1004	↓				
3	AS-13	1005	↓				
4	AS-14	1006	↓				
5							
6							
7							
8							
9							
10							

RELEASED BY: Jessica Peretar — DATE: 5/19/21 — TIME: 1200
PRINT NAME: Jessica Peretar — FIRM: Valley
RECEIVED BY: Tom Blanton — DATE: 5/20/21 — TIME: 1115
PRINT NAME: — FIRM:
RELEASED BY: — DATE: — TIME:
PRINT NAME: — FIRM:
RECEIVED BY: — DATE: — TIME:
PRINT NAME: — FIRM:

ADDITIONAL REMARKS:

TEMP:

PAGE 2 OF 2

TAL-1000(0408)

Login Sample Receipt Checklist

Client: Valley Science and Engineering

Job Number: 580-103204-1

Login Number: 103204
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-102231-1
Client Project/Site: Folsom Rd

For:
Valley Science and Engineering
3511 Pacific Blvd Sw
Albany, Oregon 97321

Attn: Jessica Penetar

Authorized for release by:
4/30/2021 3:21:06 PM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

Table of Contents

Job ID: 580-102231-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-102231-1

Comments
No additional comments.

Receipt
The samples were received on 4/3/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.8º C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 580-353938 recovered above the upper control limit for sec-Butylbenzene, Styrene, 4-Isopropyltoluene, Isopropylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-354350 recovered above the upper control limit for 2-Chlorotoluene, Hexachlorobutadiene, N-Propylbenzene, Isopropylbenzene, n-Butylbenzene, Styrene, 1,2,4-Trimethylbenzene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 4-Isopropyltoluene, sec-Butylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) for analytical batch 580-354350 recovered outside acceptance limits for Methylene Chloride, 1,2,4-Trimethylbenzene, sec-Butylbenzene, and 4-Isopropyltoluene. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for preparation batch 580-354347 and 580-354347 and analytical batch 580-354350 recovered outside acceptance limits for Methylene Chloride. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8082A: The (CCVIS 580-353692/4) recovered outside drift limits for DCB Decachlorobiphenyl surrogate on one column. Results have been reported from the passing column.

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-353601 and analytical batch 580-354125 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081B: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: (LCS 580-353601/2-A) and (MB 580-353601/1-A).

Method 8151A: The initial calibration verification (ICV) result for batch 280-534072 was above the upper control limit for 2,4,5-T on the confirmation (back) column. Sample results were reported from the in control primary column. The associated samples are affected: SS-B1 (580-102231-1) and SS-B2 (580-102231-2).

Method 8151A: The continuing calibration verification (CCV) associated with batch 280-534072 recovered above the upper control limit for

Job ID: 580-102231-1 (Continued)

Laboratory: Eurofins FGS, Seattle (Continued)

2,4,5-T and 2,4-DB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS-B1 (580-102231-1) and SS-B2 (580-102231-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 8151A: Insufficient sample (SS-B1 (580-102231-1) and SS-B2 (580-102231-2)) volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-531858 for method 8151A_SP/8151A.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: SS-B1 (580-102231-1) and SS-B2 (580-102231-2). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Client Sample ID: SS-B1
Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1
Matrix: Solid
Percent Solids: 79.3

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Chloromethane	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Vinyl chloride	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Bromomethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Chloroethane	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Trichlorofluoromethane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1-Dichloroethene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Methylene Chloride	ND		17		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
trans-1,2-Dichloroethene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1-Dichloroethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
2,2-Dichloropropane	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
cis-1,2-Dichloroethene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Bromochloromethane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Chloroform	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1,1-Trichloroethane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Carbon tetrachloride	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1-Dichloropropene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Benzene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2-Dichloroethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Trichloroethene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2-Dichloropropane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Dibromomethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Bromodichloromethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
cis-1,3-Dichloropropene	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Toluene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1,2-Trichloroethane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Tetrachloroethene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,3-Dichloropropane	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Dibromochloromethane	ND		0.65		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2-Dibromoethane	ND		0.43		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Chlorobenzene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Ethylbenzene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1,1,2-Tetrachloroethane	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,1,2,2-Tetrachloroethane	ND		1.7		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
m-Xylene & p-Xylene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
o-Xylene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Styrene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Bromoform	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Isopropylbenzene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Bromobenzene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
N-Propylbenzene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2,3-Trichloropropane	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
2-Chlorotoluene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,3,5-Trimethylbenzene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
4-Chlorotoluene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
t-Butylbenzene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2,4-Trimethylbenzene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
sec-Butylbenzene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Client Sample ID: SS-B1
Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1
Matrix: Solid
Percent Solids: 79.3

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
4-Isopropyltoluene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,4-Dichlorobenzene	ND		2.2		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
n-Butylbenzene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2,4-Trichlorobenzene	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
1,2,3-Trichlorobenzene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Hexachlorobutadiene	ND		1.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Naphthalene	ND		4.3		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1
Methyl tert-butyl ether	ND		0.87		ug/Kg	☼	04/03/21 10:10	04/08/21 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*	*04/03/21 10:10*	*04/08/21 22:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*04/03/21 10:10*	*04/08/21 22:24*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*04/03/21 10:10*	*04/08/21 22:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 121*	*04/03/21 10:10*	*04/08/21 22:24*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
2-Methylnaphthalene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
1-Methylnaphthalene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Acenaphthylene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Acenaphthene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Fluorene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Phenanthrene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Anthracene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Fluoranthene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Pyrene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Benzo[a]anthracene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Chrysene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Benzo[b]fluoranthene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Benzo[k]fluoranthene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Benzo[a]pyrene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Indeno[1,2,3-cd]pyrene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Dibenz(a,h)anthracene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1
Benzo[g,h,i]perylene	ND		6.3		ug/Kg	☼	04/05/21 13:34	04/07/21 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*79*		*42 - 130*	*04/05/21 13:34*	*04/07/21 19:23*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		4.5		mg/Kg	☼	04/06/21 12:43	04/06/21 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*04/06/21 12:43*	*04/06/21 21:22*	*1*

Client Sample ID: SS-B1
Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1
Matrix: Solid
Percent Solids: 79.3

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
4,4'-DDE	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
4,4'-DDT	ND	F1	7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Aldrin	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
alpha-BHC	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
beta-BHC	ND		19		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
cis-Chlordane	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
delta-BHC	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Dieldrin	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endosulfan I	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endosulfan II	ND	F1	7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endosulfan sulfate	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endrin	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endrin aldehyde	ND	F1	75		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Endrin ketone	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
gamma-BHC (Lindane)	ND		7.5		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Heptachlor	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Heptachlor epoxide	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Methoxychlor	ND	F1	37		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
Toxaphene	ND		370		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3
trans-Chlordane	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 16:46	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*118*		*36 - 123*	*04/05/21 12:23*	*04/12/21 16:46*	*3*
Tetrachloro-m-xylene	*93*		*38 - 123*	*04/05/21 12:23*	*04/12/21 16:46*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1221	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1232	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1242	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1248	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1254	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1
PCB-1260	ND		0.025		mg/Kg	☼	04/05/21 12:23	04/06/21 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*44 - 135*	*04/05/21 12:23*	*04/06/21 18:19*	*1*
Tetrachloro-m-xylene	*66*		*48 - 122*	*04/05/21 12:23*	*04/06/21 18:19*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		50		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
Dicamba	ND		50		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
Mecoprop	ND		10000		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
MCPA	ND		10000		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
Dichlorprop	ND		100		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
2,4-D	ND		100		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
Pentachlorophenol	ND		120		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
Silvex (2,4,5-TP)	ND		25		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1

Client Sample ID: SS-B1

Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1

Matrix: Solid
Percent Solids: 79.3

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		25		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1
2,4-DB	ND		100		ug/Kg	☼	04/09/21 10:23	04/28/21 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*62*		*31 - 105*	*04/09/21 10:23*	*04/28/21 12:32*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		61		mg/Kg	☼	04/09/21 12:43	04/16/21 12:54	1
Motor Oil (>C24-C36)	ND		61		mg/Kg	☼	04/09/21 12:43	04/16/21 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*04/09/21 12:43*	*04/16/21 12:54*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		2.1		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Barium	**75**		0.34		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Cadmium	ND		0.69		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Chromium	**16**		0.90		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Lead	**5.7**		1.0		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Selenium	ND		3.4		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1
Silver	ND		1.7		mg/Kg	☼	04/14/21 10:45	04/14/21 18:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.025		mg/Kg	☼	04/07/21 11:02	04/08/21 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**79.3**		0.1		%			04/09/21 09:45	1
Percent Moisture	**20.7**		0.1		%			04/09/21 09:45	1

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Client Sample ID: SS-B2
Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2
Matrix: Solid
Percent Solids: 80.3

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Chloromethane	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Vinyl chloride	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Bromomethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Chloroethane	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Trichlorofluoromethane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1-Dichloroethene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Methylene Chloride	ND	*-	15		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
trans-1,2-Dichloroethene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1-Dichloroethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
2,2-Dichloropropane	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
cis-1,2-Dichloroethene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Bromochloromethane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Chloroform	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1,1-Trichloroethane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Carbon tetrachloride	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1-Dichloropropene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Benzene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2-Dichloroethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Trichloroethene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2-Dichloropropane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Dibromomethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Bromodichloromethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
cis-1,3-Dichloropropene	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Toluene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
trans-1,3-Dichloropropene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1,2-Trichloroethane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Tetrachloroethene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,3-Dichloropropane	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Dibromochloromethane	ND		0.55		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2-Dibromoethane	ND		0.37		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Chlorobenzene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Ethylbenzene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1,1,2-Tetrachloroethane	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,1,2,2-Tetrachloroethane	ND		1.5		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
m-Xylene & p-Xylene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
o-Xylene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Styrene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Bromoform	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Isopropylbenzene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Bromobenzene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
N-Propylbenzene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2,3-Trichloropropane	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
2-Chlorotoluene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,3,5-Trimethylbenzene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
4-Chlorotoluene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
t-Butylbenzene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2,4-Trimethylbenzene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
sec-Butylbenzene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1

Client Sample ID: SS-B2
Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2
Matrix: Solid
Percent Solids: 80.3

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
4-Isopropyltoluene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,4-Dichlorobenzene	ND		1.8		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
n-Butylbenzene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2-Dichlorobenzene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2-Dibromo-3-Chloropropane	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2,4-Trichlorobenzene	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
1,2,3-Trichlorobenzene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Hexachlorobutadiene	ND		1.1		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Naphthalene	ND		3.7		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1
Methyl tert-butyl ether	ND		0.73		ug/Kg	☼	04/03/21 10:10	04/14/21 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*	*04/03/21 10:10*	*04/14/21 19:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*	*04/03/21 10:10*	*04/14/21 19:34*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*	*04/03/21 10:10*	*04/14/21 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 121*	*04/03/21 10:10*	*04/14/21 19:34*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
2-Methylnaphthalene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
1-Methylnaphthalene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Acenaphthylene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Acenaphthene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Fluorene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Phenanthrene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Anthracene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Fluoranthene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Pyrene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Benzo[a]anthracene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Chrysene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Benzo[b]fluoranthene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Benzo[k]fluoranthene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Benzo[a]pyrene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Indeno[1,2,3-cd]pyrene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Dibenz(a,h)anthracene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1
Benzo[g,h,i]perylene	ND		6.2		ug/Kg	☼	04/05/21 13:34	04/07/21 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*73*		*42 - 130*	*04/05/21 13:34*	*04/07/21 19:45*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		6.6		mg/Kg	☼	04/06/21 12:43	04/06/21 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*04/06/21 12:43*	*04/06/21 21:46*	*1*

Client Sample ID: SS-B2

Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2

Matrix: Solid
Percent Solids: 80.3

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
4,4'-DDE	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
4,4'-DDT	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Aldrin	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
alpha-BHC	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
beta-BHC	ND		18		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
cis-Chlordane	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
delta-BHC	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Dieldrin	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endosulfan I	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endosulfan II	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endosulfan sulfate	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endrin	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endrin aldehyde	ND		73		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Endrin ketone	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
gamma-BHC (Lindane)	ND		7.3		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Heptachlor	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Heptachlor epoxide	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Methoxychlor	ND		37		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
Toxaphene	ND		370		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3
trans-Chlordane	ND		11		ug/Kg	☼	04/05/21 12:23	04/12/21 17:41	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*36 - 123*	*04/05/21 12:23*	*04/12/21 17:41*	*3*
Tetrachloro-m-xylene	*81*		*38 - 123*	*04/05/21 12:23*	*04/12/21 17:41*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1221	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1232	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1242	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1248	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1254	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1
PCB-1260	ND		0.024		mg/Kg	☼	04/05/21 12:23	04/06/21 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*44 - 135*	*04/05/21 12:23*	*04/06/21 21:15*	*1*
Tetrachloro-m-xylene	*64*		*48 - 122*	*04/05/21 12:23*	*04/06/21 21:15*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		48		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
Dicamba	ND		48		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
Mecoprop	ND		9500		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
MCPA	ND		9500		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
Dichlorprop	ND		95		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
2,4-D	ND		95		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
Pentachlorophenol	ND		120		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
Silvex (2,4,5-TP)	ND		24		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1

Client Sample ID: SS-B2

Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2

Matrix: Solid
Percent Solids: 80.3

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		24		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1
2,4-DB	ND		95		ug/Kg	☼	04/09/21 10:23	04/28/21 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*31 - 105*	*04/09/21 10:23*	*04/28/21 12:54*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		59		mg/Kg	☼	04/09/21 12:43	04/16/21 13:14	1
Motor Oil (>C24-C36)	**88**		59		mg/Kg	☼	04/09/21 12:43	04/16/21 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*04/09/21 12:43*	*04/16/21 13:14*	*1*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		2.7		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Barium	**54**		0.44		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Cadmium	ND		0.89		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Chromium	**10**		1.2		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Lead	**4.7**		1.3		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Selenium	ND		4.4		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1
Silver	ND		2.2		mg/Kg	☼	04/14/21 10:45	04/14/21 18:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.026		mg/Kg	☼	04/07/21 11:02	04/08/21 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**80.3**		0.1		%			04/09/21 09:45	1
Percent Moisture	**19.7**		0.1		%			04/09/21 09:45	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-353922/1-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Chloromethane	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Vinyl chloride	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Bromomethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Chloroethane	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Trichlorofluoromethane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Methylene Chloride	ND		40		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1-Dichloroethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Bromochloromethane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Chloroform	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Carbon tetrachloride	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1-Dichloropropene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Benzene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2-Dichloroethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Trichloroethene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2-Dichloropropane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Dibromomethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Bromodichloromethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Toluene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Tetrachloroethene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,3-Dichloropropane	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Dibromochloromethane	ND		1.5		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2-Dibromoethane	ND		1.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Chlorobenzene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Ethylbenzene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
m-Xylene & p-Xylene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
o-Xylene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Styrene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Bromoform	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Isopropylbenzene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Bromobenzene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
N-Propylbenzene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
2-Chlorotoluene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
4-Chlorotoluene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
t-Butylbenzene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-353922/1-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
4-Isopropyltoluene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
n-Butylbenzene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2-Dichlorobenzene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Hexachlorobutadiene	ND		3.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Naphthalene	ND		10		ug/Kg		04/08/21 16:00	04/08/21 18:32	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		04/08/21 16:00	04/08/21 18:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*04/08/21 16:00*	*04/08/21 18:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*	*04/08/21 16:00*	*04/08/21 18:32*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*04/08/21 16:00*	*04/08/21 18:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*	*04/08/21 16:00*	*04/08/21 18:32*	*1*

Lab Sample ID: LCS 580-353922/2-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	22.1		ug/Kg		110	24 - 150
Chloromethane	20.0	21.6		ug/Kg		108	52 - 150
Vinyl chloride	20.0	21.5		ug/Kg		108	54 - 150
Bromomethane	20.0	21.1		ug/Kg		105	42 - 150
Chloroethane	20.0	23.1		ug/Kg		115	50 - 150
Trichlorofluoromethane	20.0	21.3		ug/Kg		107	71 - 150
1,1-Dichloroethene	20.0	22.4		ug/Kg		112	73 - 143
Methylene Chloride	20.0	16.2	J	ug/Kg		81	66 - 140
trans-1,2-Dichloroethene	20.0	22.5		ug/Kg		112	77 - 134
1,1-Dichloroethane	20.0	20.4		ug/Kg		102	78 - 135
2,2-Dichloropropane	20.0	21.1		ug/Kg		106	62 - 150
cis-1,2-Dichloroethene	20.0	20.7		ug/Kg		104	68 - 132
Bromochloromethane	20.0	18.9		ug/Kg		94	76 - 131
Chloroform	20.0	20.2		ug/Kg		101	74 - 133
1,1,1-Trichloroethane	20.0	21.6		ug/Kg		108	78 - 144
Carbon tetrachloride	20.0	21.8		ug/Kg		109	66 - 150
1,1-Dichloropropene	20.0	22.0		ug/Kg		110	76 - 140
Benzene	20.0	20.6		ug/Kg		103	79 - 135
1,2-Dichloroethane	20.0	19.3		ug/Kg		96	76 - 132
Trichloroethene	20.0	21.4		ug/Kg		107	80 - 134
1,2-Dichloropropane	20.0	20.1		ug/Kg		100	65 - 136
Dibromomethane	20.0	20.6		ug/Kg		103	72 - 130
Bromodichloromethane	20.0	20.3		ug/Kg		101	73 - 125
cis-1,3-Dichloropropene	20.0	20.7		ug/Kg		104	80 - 122

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-353922/2-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	20.0	21.2		ug/Kg		106	75 - 137
trans-1,3-Dichloropropene	20.0	20.7		ug/Kg		103	80 - 121
1,1,2-Trichloroethane	20.0	20.2		ug/Kg		101	80 - 123
Tetrachloroethene	20.0	21.9		ug/Kg		110	58 - 150
1,3-Dichloropropane	20.0	19.9		ug/Kg		100	75 - 120
Dibromochloromethane	20.0	20.6		ug/Kg		103	75 - 132
1,2-Dibromoethane	20.0	20.1		ug/Kg		100	77 - 123
Chlorobenzene	20.0	21.1		ug/Kg		106	80 - 131
Ethylbenzene	20.0	22.1		ug/Kg		111	80 - 135
1,1,1,2-Tetrachloroethane	20.0	21.7		ug/Kg		108	79 - 128
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/Kg		104	77 - 127
m-Xylene & p-Xylene	20.0	22.8		ug/Kg		114	80 - 132
o-Xylene	20.0	22.2		ug/Kg		111	80 - 132
Styrene	20.0	21.9		ug/Kg		109	79 - 129
Bromoform	20.0	21.3		ug/Kg		107	71 - 146
Isopropylbenzene	20.0	23.0		ug/Kg		115	81 - 140
Bromobenzene	20.0	21.2		ug/Kg		106	78 - 126
N-Propylbenzene	20.0	23.5		ug/Kg		117	68 - 149
1,2,3-Trichloropropane	20.0	21.0		ug/Kg		105	77 - 127
2-Chlorotoluene	20.0	23.3		ug/Kg		117	77 - 134
1,3,5-Trimethylbenzene	20.0	23.6		ug/Kg		118	72 - 142
4-Chlorotoluene	20.0	21.8		ug/Kg		109	71 - 137
t-Butylbenzene	20.0	24.1		ug/Kg		120	72 - 144
1,2,4-Trimethylbenzene	20.0	24.3		ug/Kg		122	73 - 138
sec-Butylbenzene	20.0	25.5		ug/Kg		127	71 - 143
1,3-Dichlorobenzene	20.0	21.6		ug/Kg		108	78 - 132
4-Isopropyltoluene	20.0	25.5		ug/Kg		127	71 - 142
1,4-Dichlorobenzene	20.0	21.7		ug/Kg		109	77 - 123
n-Butylbenzene	20.0	23.7		ug/Kg		118	69 - 143
1,2-Dichlorobenzene	20.0	21.9		ug/Kg		110	78 - 126
1,2-Dibromo-3-Chloropropane	20.0	21.2		ug/Kg		106	75 - 129
1,2,4-Trichlorobenzene	20.0	21.7		ug/Kg		108	74 - 131
1,2,3-Trichlorobenzene	20.0	21.0		ug/Kg		105	68 - 136
Hexachlorobutadiene	20.0	24.2		ug/Kg		121	65 - 150
Naphthalene	20.0	21.0		ug/Kg		105	64 - 136
Methyl tert-butyl ether	20.0	20.1		ug/Kg		100	77 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-353922/3-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 353922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	20.0	21.3		ug/Kg		107	24 - 150	3	40
Chloromethane	20.0	22.6		ug/Kg		113	52 - 150	5	26
Vinyl chloride	20.0	21.5		ug/Kg		108	54 - 150	0	40
Bromomethane	20.0	19.3		ug/Kg		96	42 - 150	9	40
Chloroethane	20.0	20.5		ug/Kg		103	50 - 150	12	31
Trichlorofluoromethane	20.0	23.6		ug/Kg		118	71 - 150	10	36
1,1-Dichloroethene	20.0	20.6		ug/Kg		103	73 - 143	8	34
Methylene Chloride	20.0	15.8	J	ug/Kg		79	66 - 140	3	30
trans-1,2-Dichloroethene	20.0	21.3		ug/Kg		106	77 - 134	5	33
1,1-Dichloroethane	20.0	19.2		ug/Kg		96	78 - 135	6	31
2,2-Dichloropropane	20.0	19.5		ug/Kg		97	62 - 150	8	40
cis-1,2-Dichloroethene	20.0	19.5		ug/Kg		97	68 - 132	6	32
Bromochloromethane	20.0	19.0		ug/Kg		95	76 - 131	0	28
Chloroform	20.0	19.8		ug/Kg		99	74 - 133	2	36
1,1,1-Trichloroethane	20.0	20.3		ug/Kg		101	78 - 144	7	38
Carbon tetrachloride	20.0	20.8		ug/Kg		104	66 - 150	4	39
1,1-Dichloropropene	20.0	20.5		ug/Kg		103	76 - 140	7	38
Benzene	20.0	19.9		ug/Kg		99	79 - 135	3	31
1,2-Dichloroethane	20.0	18.6		ug/Kg		93	76 - 132	3	29
Trichloroethene	20.0	20.7		ug/Kg		103	80 - 134	3	40
1,2-Dichloropropane	20.0	19.1		ug/Kg		95	65 - 136	5	37
Dibromomethane	20.0	20.4		ug/Kg		102	72 - 130	1	34
Bromodichloromethane	20.0	19.3		ug/Kg		96	73 - 125	5	40
cis-1,3-Dichloropropene	20.0	20.4		ug/Kg		102	80 - 122	2	40
Toluene	20.0	20.0		ug/Kg		100	75 - 137	6	34
trans-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	80 - 121	5	40
1,1,2-Trichloroethane	20.0	19.3		ug/Kg		97	80 - 123	5	39
Tetrachloroethene	20.0	20.4		ug/Kg		102	58 - 150	7	40
1,3-Dichloropropane	20.0	19.6		ug/Kg		98	75 - 120	1	37
Dibromochloromethane	20.0	19.9		ug/Kg		99	75 - 132	4	40
1,2-Dibromoethane	20.0	19.8		ug/Kg		99	77 - 123	2	37
Chlorobenzene	20.0	20.5		ug/Kg		102	80 - 131	3	40
Ethylbenzene	20.0	21.3		ug/Kg		106	80 - 135	4	37
1,1,1,2-Tetrachloroethane	20.0	20.2		ug/Kg		101	79 - 128	7	40
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/Kg		102	77 - 127	2	40
m-Xylene & p-Xylene	20.0	22.2		ug/Kg		111	80 - 132	3	38
o-Xylene	20.0	21.5		ug/Kg		107	80 - 132	4	39
Styrene	20.0	21.7		ug/Kg		109	79 - 129	1	40
Bromoform	20.0	20.6		ug/Kg		103	71 - 146	3	40
Isopropylbenzene	20.0	22.2		ug/Kg		111	81 - 140	3	40
Bromobenzene	20.0	20.3		ug/Kg		101	78 - 126	4	40
N-Propylbenzene	20.0	22.0		ug/Kg		110	68 - 149	6	40
1,2,3-Trichloropropane	20.0	21.0		ug/Kg		105	77 - 127	0	40
2-Chlorotoluene	20.0	21.2		ug/Kg		106	77 - 134	9	40
1,3,5-Trimethylbenzene	20.0	22.7		ug/Kg		114	72 - 142	4	40
4-Chlorotoluene	20.0	21.3		ug/Kg		106	71 - 137	3	40
t-Butylbenzene	20.0	22.2		ug/Kg		111	72 - 144	8	40
1,2,4-Trimethylbenzene	20.0	22.9		ug/Kg		115	73 - 138	6	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-353922/3-A
Matrix: Solid
Analysis Batch: 353938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 353922

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			20.0	23.5		ug/Kg		117	71 - 143	8	40
1,3-Dichlorobenzene			20.0	20.6		ug/Kg		103	78 - 132	5	40
4-Isopropyltoluene			20.0	23.7		ug/Kg		118	71 - 142	7	40
1,4-Dichlorobenzene			20.0	20.9		ug/Kg		105	77 - 123	4	40
n-Butylbenzene			20.0	21.9		ug/Kg		109	69 - 143	8	40
1,2-Dichlorobenzene			20.0	20.8		ug/Kg		104	78 - 126	5	40
1,2-Dibromo-3-Chloropropane			20.0	20.6		ug/Kg		103	75 - 129	3	40
1,2,4-Trichlorobenzene			20.0	21.1		ug/Kg		106	74 - 131	3	40
1,2,3-Trichlorobenzene			20.0	19.6		ug/Kg		98	68 - 136	7	40
Hexachlorobutadiene			20.0	22.4		ug/Kg		112	65 - 150	8	36
Naphthalene			20.0	20.5		ug/Kg		102	64 - 136	2	40
Methyl tert-butyl ether			20.0	19.9		ug/Kg		100	77 - 132	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*

Lab Sample ID: MB 580-354347/1-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Chloromethane	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Vinyl chloride	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Bromomethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Chloroethane	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Trichlorofluoromethane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Methylene Chloride	ND		40		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1-Dichloroethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
2,2-Dichloropropane	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Bromochloromethane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Chloroform	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Carbon tetrachloride	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1-Dichloropropene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Benzene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2-Dichloroethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Trichloroethene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2-Dichloropropane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Dibromomethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Bromodichloromethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-354347/1-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
trans-1,3-Dichloropropene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Tetrachloroethene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,3-Dichloropropane	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Dibromochloromethane	ND		1.5		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2-Dibromoethane	ND		1.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Chlorobenzene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Ethylbenzene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
m-Xylene & p-Xylene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
o-Xylene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Styrene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Bromoform	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Isopropylbenzene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Bromobenzene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
N-Propylbenzene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
2-Chlorotoluene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
4-Chlorotoluene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
t-Butylbenzene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
sec-Butylbenzene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
4-Isopropyltoluene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
n-Butylbenzene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2-Dichlorobenzene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2,4-Trichlorobenzene	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Hexachlorobutadiene	ND		3.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Naphthalene	ND		10		ug/Kg		04/14/21 16:07	04/14/21 19:07	1
Methyl tert-butyl ether	ND		2.0		ug/Kg		04/14/21 16:07	04/14/21 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*	*04/14/21 16:07*	*04/14/21 19:07*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*	*04/14/21 16:07*	*04/14/21 19:07*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*04/14/21 16:07*	*04/14/21 19:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*	*04/14/21 16:07*	*04/14/21 19:07*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-354347/2-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	20.0	16.9		ug/Kg		85	24 - 150
Chloromethane	20.0	21.9		ug/Kg		110	52 - 150
Vinyl chloride	20.0	21.3		ug/Kg		106	54 - 150
Bromomethane	20.0	21.0		ug/Kg		105	42 - 150
Chloroethane	20.0	18.8		ug/Kg		94	50 - 150
Trichlorofluoromethane	20.0	22.3		ug/Kg		111	71 - 150
1,1-Dichloroethene	20.0	20.6		ug/Kg		103	73 - 143
Methylene Chloride	20.0	10.9	J *-	ug/Kg		55	66 - 140
trans-1,2-Dichloroethene	20.0	21.1		ug/Kg		105	77 - 134
1,1-Dichloroethane	20.0	20.1		ug/Kg		100	78 - 135
2,2-Dichloropropane	20.0	20.1		ug/Kg		101	62 - 150
cis-1,2-Dichloroethene	20.0	20.4		ug/Kg		102	68 - 132
Bromochloromethane	20.0	19.4		ug/Kg		97	76 - 131
Chloroform	20.0	19.7		ug/Kg		98	74 - 133
1,1,1-Trichloroethane	20.0	20.7		ug/Kg		104	78 - 144
Carbon tetrachloride	20.0	20.5		ug/Kg		103	66 - 150
1,1-Dichloropropene	20.0	20.5		ug/Kg		102	76 - 140
Benzene	20.0	20.3		ug/Kg		102	79 - 135
1,2-Dichloroethane	20.0	20.2		ug/Kg		101	76 - 132
Trichloroethene	20.0	20.9		ug/Kg		105	80 - 134
1,2-Dichloropropane	20.0	20.3		ug/Kg		101	65 - 136
Dibromomethane	20.0	20.4		ug/Kg		102	72 - 130
Bromodichloromethane	20.0	20.6		ug/Kg		103	73 - 125
cis-1,3-Dichloropropene	20.0	21.5		ug/Kg		107	80 - 122
Toluene	20.0	20.3		ug/Kg		101	75 - 137
trans-1,3-Dichloropropene	20.0	22.2		ug/Kg		111	80 - 121
1,1,2-Trichloroethane	20.0	21.1		ug/Kg		106	80 - 123
Tetrachloroethene	20.0	17.7		ug/Kg		88	58 - 150
1,3-Dichloropropane	20.0	20.8		ug/Kg		104	75 - 120
Dibromochloromethane	20.0	21.4		ug/Kg		107	75 - 132
1,2-Dibromoethane	20.0	19.9		ug/Kg		100	77 - 123
Chlorobenzene	20.0	21.7		ug/Kg		109	80 - 131
Ethylbenzene	20.0	22.4		ug/Kg		112	80 - 135
1,1,1,2-Tetrachloroethane	20.0	22.1		ug/Kg		110	79 - 128
1,1,2,2-Tetrachloroethane	20.0	20.1		ug/Kg		101	77 - 127
m-Xylene & p-Xylene	20.0	23.2		ug/Kg		116	80 - 132
o-Xylene	20.0	23.1		ug/Kg		116	80 - 132
Styrene	20.0	24.2		ug/Kg		121	79 - 129
Bromoform	20.0	22.0		ug/Kg		110	71 - 146
Isopropylbenzene	20.0	23.4		ug/Kg		117	81 - 140
Bromobenzene	20.0	19.9		ug/Kg		100	78 - 126
N-Propylbenzene	20.0	21.8		ug/Kg		109	68 - 149
1,2,3-Trichloropropane	20.0	21.4		ug/Kg		107	77 - 127
2-Chlorotoluene	20.0	21.0		ug/Kg		105	77 - 134
1,3,5-Trimethylbenzene	20.0	22.6		ug/Kg		113	72 - 142
4-Chlorotoluene	20.0	21.5		ug/Kg		108	71 - 137
t-Butylbenzene	20.0	22.3		ug/Kg		111	72 - 144
1,2,4-Trimethylbenzene	20.0	22.8		ug/Kg		114	73 - 138

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-354347/2-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354347

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
sec-Butylbenzene			20.0	22.8		ug/Kg		114	71 - 143		
1,3-Dichlorobenzene			20.0	20.7		ug/Kg		104	78 - 132		
4-Isopropyltoluene			20.0	23.4		ug/Kg		117	71 - 142		
1,4-Dichlorobenzene			20.0	21.3		ug/Kg		107	77 - 123		
n-Butylbenzene			20.0	22.4		ug/Kg		112	69 - 143		
1,2-Dichlorobenzene			20.0	21.0		ug/Kg		105	78 - 126		
1,2-Dibromo-3-Chloropropane			20.0	20.1		ug/Kg		100	75 - 129		
1,2,4-Trichlorobenzene			20.0	21.1		ug/Kg		106	74 - 131		
1,2,3-Trichlorobenzene			20.0	19.4		ug/Kg		97	68 - 136		
Hexachlorobutadiene			20.0	21.6		ug/Kg		108	65 - 150		
Naphthalene			20.0	19.3		ug/Kg		96	64 - 136		
Methyl tert-butyl ether			20.0	19.9		ug/Kg		100	77 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*

Lab Sample ID: LCSD 580-354347/3-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 354347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			20.0	16.2		ug/Kg		81	24 - 150	4	40
Chloromethane			20.0	20.1		ug/Kg		100	52 - 150	9	26
Vinyl chloride			20.0	19.6		ug/Kg		98	54 - 150	8	40
Bromomethane			20.0	19.1		ug/Kg		95	42 - 150	9	40
Chloroethane			20.0	20.7		ug/Kg		104	50 - 150	9	31
Trichlorofluoromethane			20.0	21.7		ug/Kg		108	71 - 150	3	36
1,1-Dichloroethene			20.0	20.8		ug/Kg		104	73 - 143	1	34
Methylene Chloride			20.0	11.2	J *-	ug/Kg		56	66 - 140	3	30
trans-1,2-Dichloroethene			20.0	20.7		ug/Kg		104	77 - 134	2	33
1,1-Dichloroethane			20.0	19.8		ug/Kg		99	78 - 135	1	31
2,2-Dichloropropane			20.0	20.1		ug/Kg		100	62 - 150	0	40
cis-1,2-Dichloroethene			20.0	20.3		ug/Kg		102	68 - 132	0	32
Bromochloromethane			20.0	19.6		ug/Kg		98	76 - 131	1	28
Chloroform			20.0	20.2		ug/Kg		101	74 - 133	2	36
1,1,1-Trichloroethane			20.0	20.3		ug/Kg		102	78 - 144	2	38
Carbon tetrachloride			20.0	20.0		ug/Kg		100	66 - 150	3	39
1,1-Dichloropropene			20.0	20.5		ug/Kg		103	76 - 140	0	38
Benzene			20.0	20.8		ug/Kg		104	79 - 135	2	31
1,2-Dichloroethane			20.0	20.4		ug/Kg		102	76 - 132	1	29
Trichloroethene			20.0	21.1		ug/Kg		106	80 - 134	1	40
1,2-Dichloropropane			20.0	20.0		ug/Kg		100	65 - 136	1	37
Dibromomethane			20.0	20.2		ug/Kg		101	72 - 130	1	34
Bromodichloromethane			20.0	20.2		ug/Kg		101	73 - 125	2	40
cis-1,3-Dichloropropene			20.0	21.1		ug/Kg		105	80 - 122	2	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-354347/3-A
Matrix: Solid
Analysis Batch: 354350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 354347

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			20.0	20.6		ug/Kg		103	75 - 137	2	34
trans-1,3-Dichloropropene			20.0	21.4		ug/Kg		107	80 - 121	4	40
1,1,2-Trichloroethane			20.0	20.5		ug/Kg		102	80 - 123	3	39
Tetrachloroethene			20.0	21.0		ug/Kg		105	58 - 150	17	40
1,3-Dichloropropane			20.0	20.9		ug/Kg		104	75 - 120	0	37
Dibromochloromethane			20.0	21.3		ug/Kg		106	75 - 132	0	40
1,2-Dibromoethane			20.0	20.8		ug/Kg		104	77 - 123	4	37
Chlorobenzene			20.0	21.6		ug/Kg		108	80 - 131	0	40
Ethylbenzene			20.0	22.5		ug/Kg		112	80 - 135	0	37
1,1,1,2-Tetrachloroethane			20.0	21.9		ug/Kg		109	79 - 128	1	40
1,1,2,2-Tetrachloroethane			20.0	21.7		ug/Kg		109	77 - 127	8	40
m-Xylene & p-Xylene			20.0	23.2		ug/Kg		116	80 - 132	0	38
o-Xylene			20.0	22.6		ug/Kg		113	80 - 132	2	39
Styrene			20.0	23.5		ug/Kg		118	79 - 129	3	40
Bromoform			20.0	21.6		ug/Kg		108	71 - 146	2	40
Isopropylbenzene			20.0	23.2		ug/Kg		116	81 - 140	1	40
Bromobenzene			20.0	21.5		ug/Kg		107	78 - 126	7	40
N-Propylbenzene			20.0	23.6		ug/Kg		118	68 - 149	8	40
1,2,3-Trichloropropane			20.0	22.9		ug/Kg		114	77 - 127	7	40
2-Chlorotoluene			20.0	22.9		ug/Kg		115	77 - 134	9	40
1,3,5-Trimethylbenzene			20.0	24.3		ug/Kg		122	72 - 142	7	40
4-Chlorotoluene			20.0	23.2		ug/Kg		116	71 - 137	7	40
t-Butylbenzene			20.0	23.7		ug/Kg		118	72 - 144	6	40
1,2,4-Trimethylbenzene			20.0	24.8		ug/Kg		124	73 - 138	8	40
sec-Butylbenzene			20.0	24.5		ug/Kg		122	71 - 143	7	40
1,3-Dichlorobenzene			20.0	22.0		ug/Kg		110	78 - 132	6	40
4-Isopropyltoluene			20.0	25.3		ug/Kg		126	71 - 142	8	40
1,4-Dichlorobenzene			20.0	22.5		ug/Kg		113	77 - 123	5	40
n-Butylbenzene			20.0	23.2		ug/Kg		116	69 - 143	4	40
1,2-Dichlorobenzene			20.0	22.7		ug/Kg		113	78 - 126	8	40
1,2-Dibromo-3-Chloropropane			20.0	21.9		ug/Kg		110	75 - 129	9	40
1,2,4-Trichlorobenzene			20.0	22.0		ug/Kg		110	74 - 131	4	40
1,2,3-Trichlorobenzene			20.0	21.2		ug/Kg		106	68 - 136	9	40
Hexachlorobutadiene			20.0	22.7		ug/Kg		113	65 - 150	5	36
Naphthalene			20.0	21.2		ug/Kg		106	64 - 136	10	40
Methyl tert-butyl ether			20.0	19.9		ug/Kg		100	77 - 132	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-353609/1-A
Matrix: Solid
Analysis Batch: 353767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
2-Methylnaphthalene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
1-Methylnaphthalene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Acenaphthylene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Acenaphthene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Fluorene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Phenanthrene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Anthracene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Fluoranthene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Pyrene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Benzo[a]anthracene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Chrysene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Benzo[a]pyrene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		04/05/21 13:34	04/07/21 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*53*		*42 - 130*	*04/05/21 13:34*	*04/07/21 13:23*	*1*

Lab Sample ID: LCS 580-353609/2-A
Matrix: Solid
Analysis Batch: 353767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353609

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			1000	842		ug/Kg		84	48 - 120		
2-Methylnaphthalene			1000	877		ug/Kg		88	58 - 130		
1-Methylnaphthalene			1000	741		ug/Kg		74	53 - 120		
Acenaphthylene			1000	882		ug/Kg		88	50 - 125		
Acenaphthene			1000	867		ug/Kg		87	48 - 120		
Fluorene			1000	889		ug/Kg		89	52 - 126		
Phenanthrene			1000	957		ug/Kg		96	45 - 126		
Anthracene			1000	717		ug/Kg		72	53 - 125		
Fluoranthene			1000	778		ug/Kg		78	51 - 125		
Pyrene			1000	790		ug/Kg		79	49 - 120		
Benzo[a]anthracene			1000	1060		ug/Kg		106	66 - 120		
Chrysene			1000	858		ug/Kg		86	49 - 120		
Benzo[b]fluoranthene			1000	963		ug/Kg		96	49 - 132		
Benzo[k]fluoranthene			1000	841		ug/Kg		84	51 - 131		
Benzo[a]pyrene			1000	922		ug/Kg		92	51 - 124		
Indeno[1,2,3-cd]pyrene			1000	839		ug/Kg		84	65 - 132		
Dibenz(a,h)anthracene			1000	894		ug/Kg		89	55 - 133		
Benzo[g,h,i]perylene			1000	940		ug/Kg		94	56 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*79*		*42 - 130*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353687/1-A
Matrix: Solid
Analysis Batch: 353743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		04/06/21 12:43	04/06/21 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*04/06/21 12:43*	*04/06/21 14:00*	*1*

Lab Sample ID: LCS 580-353687/2-A
Matrix: Solid
Analysis Batch: 353743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353687

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	36.9		mg/Kg		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*

Lab Sample ID: LCSD 580-353687/3-A
Matrix: Solid
Analysis Batch: 353743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 353687

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	37.3		mg/Kg		93	80 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-353601/1-A
Matrix: Solid
Analysis Batch: 354331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
4,4'-DDE	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
4,4'-DDT	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Aldrin	ND		3.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
alpha-BHC	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
beta-BHC	ND		5.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
cis-Chlordane	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
delta-BHC	ND		3.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Dieldrin	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endosulfan I	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endosulfan II	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endosulfan sulfate	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endrin	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endrin aldehyde	ND		20		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Endrin ketone	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 580-353601/1-A
Matrix: Solid
Analysis Batch: 354331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		3.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Heptachlor epoxide	ND		3.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Methoxychlor	ND		10		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
Toxaphene	ND		100		ug/Kg		04/05/21 12:23	04/14/21 14:08	1
trans-Chlordane	ND		3.0		ug/Kg		04/05/21 12:23	04/14/21 14:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*36 - 123*	*04/05/21 12:23*	*04/14/21 14:08*	*1*
Tetrachloro-m-xylene	*100*		*38 - 123*	*04/05/21 12:23*	*04/14/21 14:08*	*1*

Lab Sample ID: LCS 580-353601/2-A
Matrix: Solid
Analysis Batch: 354331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	20.0	17.0		ug/Kg		85	61 - 132
4,4'-DDE	20.0	16.8		ug/Kg		84	59 - 124
4,4'-DDT	20.0	17.1		ug/Kg		85	57 - 124
Aldrin	20.0	16.7		ug/Kg		84	56 - 121
alpha-BHC	20.0	16.2		ug/Kg		81	62 - 120
beta-BHC	20.0	16.0		ug/Kg		80	53 - 138
cis-Chlordane	20.0	17.6		ug/Kg		88	62 - 125
delta-BHC	20.0	15.0		ug/Kg		75	60 - 124
Dieldrin	20.0	16.9		ug/Kg		84	61 - 121
Endosulfan I	20.0	14.3		ug/Kg		72	57 - 121
Endosulfan II	20.0	9.78		ug/Kg		49	47 - 125
Endosulfan sulfate	20.0	16.6		ug/Kg		83	50 - 132
Endrin	20.0	16.5		ug/Kg		83	56 - 131
Endrin aldehyde	20.0	17.0	J	ug/Kg		85	45 - 136
Endrin ketone	20.0	17.3		ug/Kg		87	56 - 128
gamma-BHC (Lindane)	20.0	16.4		ug/Kg		82	55 - 120
Heptachlor	20.0	17.1		ug/Kg		86	57 - 124
Heptachlor epoxide	20.0	17.0		ug/Kg		85	62 - 120
Methoxychlor	20.0	17.0		ug/Kg		85	51 - 133
trans-Chlordane	20.0	16.7		ug/Kg		83	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*36 - 123*
Tetrachloro-m-xylene	*84*		*38 - 123*

Lab Sample ID: 580-102231-1 MS
Matrix: Solid
Analysis Batch: 354125

Client Sample ID: SS-B1
Prep Type: Total/NA
Prep Batch: 353601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		24.9	23.6		ug/Kg	☼	89	61 - 132
4,4'-DDE	ND		24.9	19.8		ug/Kg	☼	64	59 - 124
4,4'-DDT	ND	F1	24.9	9.42	F1	ug/Kg	☼	24	57 - 124

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-102231-1 MS
Matrix: Solid
Analysis Batch: 354125

Client Sample ID: SS-B1
Prep Type: Total/NA
Prep Batch: 353601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		24.9	17.8		ug/Kg	☼	72	56 - 121
alpha-BHC	ND		24.9	17.9		ug/Kg	☼	72	62 - 120
beta-BHC	ND		24.9	ND		ug/Kg	☼	72	53 - 138
cis-Chlordane	ND		24.9	18.6		ug/Kg	☼	75	62 - 125
delta-BHC	ND		24.9	16.2		ug/Kg	☼	65	60 - 124
Dieldrin	ND		24.9	18.3		ug/Kg	☼	73	61 - 121
Endosulfan I	ND		24.9	14.9		ug/Kg	☼	60	57 - 121
Endosulfan II	ND	F1	24.9	10.7	F1	ug/Kg	☼	43	47 - 125
Endosulfan sulfate	ND		24.9	16.3		ug/Kg	☼	65	50 - 132
Endrin	ND		24.9	17.0		ug/Kg	☼	68	56 - 131
Endrin aldehyde	ND	F1	24.9	ND	F1	ug/Kg	☼	0	45 - 136
Endrin ketone	ND	F2 F1	24.9	15.1		ug/Kg	☼	61	56 - 128
gamma-BHC (Lindane)	ND		24.9	18.1		ug/Kg	☼	73	55 - 120
Heptachlor	ND		24.9	18.2		ug/Kg	☼	73	57 - 124
Heptachlor epoxide	ND		24.9	18.4		ug/Kg	☼	74	62 - 120
Methoxychlor	ND	F1	24.9	ND	F1	ug/Kg	☼	37	51 - 133
trans-Chlordane	ND		24.9	19.1		ug/Kg	☼	69	60 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*36 - 123*
Tetrachloro-m-xylene	*81*		*38 - 123*

Lab Sample ID: 580-102231-1 MSD
Matrix: Solid
Analysis Batch: 354125

Client Sample ID: SS-B1
Prep Type: Total/NA
Prep Batch: 353601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		25.2	24.7		ug/Kg	☼	92	61 - 132	5	33
4,4'-DDE	ND		25.2	20.2		ug/Kg	☼	65	59 - 124	2	37
4,4'-DDT	ND	F1	25.2	10.2	F1	ug/Kg	☼	27	57 - 124	8	32
Aldrin	ND		25.2	18.8		ug/Kg	☼	75	56 - 121	5	37
alpha-BHC	ND		25.2	18.5		ug/Kg	☼	74	62 - 120	4	35
beta-BHC	ND		25.2	19.2		ug/Kg	☼	76	53 - 138	7	29
cis-Chlordane	ND		25.2	19.3		ug/Kg	☼	77	62 - 125	4	39
delta-BHC	ND		25.2	16.8		ug/Kg	☼	67	60 - 124	4	37
Dieldrin	ND		25.2	18.9		ug/Kg	☼	75	61 - 121	3	35
Endosulfan I	ND		25.2	15.8		ug/Kg	☼	63	57 - 121	6	40
Endosulfan II	ND	F1	25.2	11.4	F1	ug/Kg	☼	45	47 - 125	7	37
Endosulfan sulfate	ND		25.2	17.8		ug/Kg	☼	71	50 - 132	9	40
Endrin	ND		25.2	17.9		ug/Kg	☼	71	56 - 131	5	38
Endrin aldehyde	ND	F1	25.2	ND	F1	ug/Kg	☼	0	45 - 136	NC	36
Endrin ketone	ND		25.2	16.8		ug/Kg	☼	67	56 - 128	0	27
gamma-BHC (Lindane)	ND		25.2	18.8		ug/Kg	☼	75	55 - 120	4	31
Heptachlor	ND		25.2	18.8		ug/Kg	☼	75	57 - 124	3	34
Heptachlor epoxide	ND		25.2	18.3		ug/Kg	☼	73	62 - 120	0	34
Methoxychlor	ND	F1	25.2	ND	F1	ug/Kg	☼	42	51 - 133	15	40
trans-Chlordane	ND		25.2	19.3		ug/Kg	☼	77	60 - 120	2	35

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 580-102231-1 MSD
Matrix: Solid
Analysis Batch: 354125

Client Sample ID: SS-B1
Prep Type: Total/NA
Prep Batch: 353601

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	97		36 - 123
Tetrachloro-m-xylene	78		38 - 123

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-353601/1-A
Matrix: Solid
Analysis Batch: 353692

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1221	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1232	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1242	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1248	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1254	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1
PCB-1260	ND		0.020		mg/Kg		04/05/21 12:23	04/06/21 17:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		44 - 135	04/05/21 12:23	04/06/21 17:44	1
Tetrachloro-m-xylene	61		48 - 122	04/05/21 12:23	04/06/21 17:44	1

Lab Sample ID: LCS 580-353601/3-A
Matrix: Solid
Analysis Batch: 353692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353601

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			0.100	0.0770		mg/Kg		77	55 - 132		
PCB-1260			0.100	0.0795		mg/Kg		80	54 - 126		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	99		44 - 135
Tetrachloro-m-xylene	79		48 - 122

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-531858/1-A
Matrix: Solid
Analysis Batch: 534072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		40		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
Dicamba	ND		40		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
Mecoprop	ND		8000		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
MCPA	ND		8000		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
Dichlorprop	ND		80		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
2,4-D	ND		80		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
Pentachlorophenol	ND		100		ug/Kg		04/09/21 10:23	04/28/21 11:03	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 280-531858/1-A
Matrix: Solid
Analysis Batch: 534072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 531858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	ND		20		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
2,4,5-T	ND		20		ug/Kg		04/09/21 10:23	04/28/21 11:03	1
2,4-DB	ND		80		ug/Kg		04/09/21 10:23	04/28/21 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*31 - 105*	*04/09/21 10:23*	*04/28/21 11:03*	*1*

Lab Sample ID: LCS 280-531858/2-A
Matrix: Solid
Analysis Batch: 534072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 531858

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dalapon			100	57.0		ug/Kg		57	25 - 102		
Dicamba			100	70.6		ug/Kg		71	25 - 92		
Mecoprop			10000	7630	J	ug/Kg		76	20 - 112		
MCPA			10000	7630	J	ug/Kg		76	15 - 100		
Dichlorprop			100	71.9	J	ug/Kg		72	24 - 98		
2,4-D			100	73.5	J	ug/Kg		73	22 - 105		
Pentachlorophenol			100	65.5	J	ug/Kg		66	28 - 97		
Silvex (2,4,5-TP)			100	72.6		ug/Kg		73	26 - 100		
2,4,5-T			100	76.4		ug/Kg		76	22 - 102		
2,4-DB			100	52.2	J	ug/Kg		52	21 - 98		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*73*		*31 - 105*

Lab Sample ID: LCSD 280-531858/3-A
Matrix: Solid
Analysis Batch: 534072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 531858

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dalapon			100	48.7		ug/Kg		49	25 - 102	16	50
Dicamba			100	74.3		ug/Kg		74	25 - 92	5	50
Mecoprop			10000	8320		ug/Kg		83	20 - 112	9	50
MCPA			10000	8030		ug/Kg		80	15 - 100	5	50
Dichlorprop			100	75.1	J	ug/Kg		75	24 - 98	4	50
2,4-D			100	77.4	J	ug/Kg		77	22 - 105	5	40
Pentachlorophenol			100	83.3	J	ug/Kg		83	28 - 97	24	40
Silvex (2,4,5-TP)			100	75.4		ug/Kg		75	26 - 100	4	40
2,4,5-T			100	79.3		ug/Kg		79	22 - 102	4	40
2,4-DB			100	55.1	J	ug/Kg		55	21 - 98	5	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*31 - 105*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-353990/1-A
Matrix: Solid
Analysis Batch: 354148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50		mg/Kg		04/09/21 12:43	04/12/21 16:12	1
Motor Oil (>C24-C36)	ND		50		mg/Kg		04/09/21 12:43	04/12/21 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*04/09/21 12:43*	*04/12/21 16:12*	*1*

Lab Sample ID: LCS 580-353990/2-A
Matrix: Solid
Analysis Batch: 354148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353990

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
#2 Diesel (C10-C24)			500	508		mg/Kg		102	70 - 125		
Motor Oil (>C24-C36)			500	500		mg/Kg		100	70 - 129		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*111*		*50 - 150*

Lab Sample ID: LCSD 580-353990/3-A
Matrix: Solid
Analysis Batch: 354148

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 353990

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
#2 Diesel (C10-C24)			500	521		mg/Kg		104	70 - 125	3	16
Motor Oil (>C24-C36)			500	511		mg/Kg		102	70 - 129	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*112*		*50 - 150*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-354312/24-A
Matrix: Solid
Analysis Batch: 354373

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Barium	ND		0.50		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Cadmium	ND		1.0		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Chromium	ND		1.3		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Lead	ND		1.5		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Selenium	ND		5.0		mg/Kg		04/14/21 10:45	04/14/21 17:14	1
Silver	ND		2.5		mg/Kg		04/14/21 10:45	04/14/21 17:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-354312/25-A
Matrix: Solid
Analysis Batch: 354373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	47.7		mg/Kg		95	80 - 120
Barium	50.0	51.3		mg/Kg		103	80 - 120
Cadmium	50.0	45.9		mg/Kg		92	80 - 120
Chromium	50.0	49.0		mg/Kg		98	80 - 120
Lead	50.0	47.5		mg/Kg		95	80 - 120
Selenium	50.0	49.4		mg/Kg		99	80 - 120
Silver	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 580-354312/26-A
Matrix: Solid
Analysis Batch: 354373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 354312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50.0	48.8		mg/Kg		98	80 - 120	2	20
Barium	50.0	51.9		mg/Kg		104	80 - 120	1	20
Cadmium	50.0	46.8		mg/Kg		94	80 - 120	2	20
Chromium	50.0	49.6		mg/Kg		99	80 - 120	1	20
Lead	50.0	48.4		mg/Kg		97	80 - 120	2	20
Selenium	50.0	50.5		mg/Kg		101	80 - 120	2	20
Silver	50.0	50.4		mg/Kg		101	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-353764/21-A
Matrix: Solid
Analysis Batch: 353973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 353764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030		mg/Kg		04/07/21 11:03	04/08/21 15:10	1

Lab Sample ID: LCS 580-353764/22-A
Matrix: Solid
Analysis Batch: 353973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 353764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.163		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 580-353764/23-A
Matrix: Solid
Analysis Batch: 353973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 353764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.167	0.157		mg/Kg		94	80 - 120	4	20

Lab Chronicle

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Client Sample ID: SS-B1
Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	353967	04/09/21 09:45	RJL	TAL SEA

Client Sample ID: SS-B1
Date Collected: 04/02/21 09:50
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-1
Matrix: Solid
Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			353922	04/03/21 10:10	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	353938	04/08/21 22:24	T1W	TAL SEA
Total/NA	Prep	3546			353609	04/05/21 13:34	CCH	TAL SEA
Total/NA	Analysis	8270E SIM		1	353767	04/07/21 19:23	W1T	TAL SEA
Total/NA	Prep	5035			353687	04/06/21 12:43	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	353743	04/06/21 21:22	CJB	TAL SEA
Total/NA	Prep	3546			353601	04/05/21 12:23	CCH	TAL SEA
Total/NA	Analysis	8081B		3	354125	04/12/21 16:46	T1L	TAL SEA
Total/NA	Prep	3546			353601	04/05/21 12:23	CCH	TAL SEA
Total/NA	Analysis	8082A		1	353692	04/06/21 18:19	T1W	TAL SEA
Total/NA	Prep	8151A			531858	04/09/21 10:23	DB	TAL DEN
Total/NA	Analysis	8151A		1	534072	04/28/21 12:32	MB	TAL DEN
Total/NA	Prep	3546			353990	04/09/21 12:43	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354466	04/16/21 12:54	JKM	TAL SEA
Total/NA	Prep	3050B			354312	04/14/21 10:45	TMH	TAL SEA
Total/NA	Analysis	6010D		1	354373	04/14/21 18:02	TMH	TAL SEA
Total/NA	Prep	7471A			353764	04/07/21 11:02	C1K	TAL SEA
Total/NA	Analysis	7471A		1	353973	04/08/21 15:55	C1K	TAL SEA

Client Sample ID: SS-B2
Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	353967	04/09/21 09:45	RJL	TAL SEA

Client Sample ID: SS-B2
Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			354347	04/03/21 10:10	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	354350	04/14/21 19:34	ASJ	TAL SEA
Total/NA	Prep	3546			353609	04/05/21 13:34	CCH	TAL SEA
Total/NA	Analysis	8270E SIM		1	353767	04/07/21 19:45	W1T	TAL SEA
Total/NA	Prep	5035			353687	04/06/21 12:43	JSM	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	353743	04/06/21 21:46	CJB	TAL SEA

Lab Chronicle

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Client Sample ID: SS-B2

Date Collected: 04/02/21 10:20
Date Received: 04/03/21 10:00

Lab Sample ID: 580-102231-2

Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			353601	04/05/21 12:23	CCH	TAL SEA
Total/NA	Analysis	8081B		3	354125	04/12/21 17:41	T1L	TAL SEA
Total/NA	Prep	3546			353601	04/05/21 12:23	CCH	TAL SEA
Total/NA	Analysis	8082A		1	353692	04/06/21 21:15	T1W	TAL SEA
Total/NA	Prep	8151A			531858	04/09/21 10:23	DB	TAL DEN
Total/NA	Analysis	8151A		1	534072	04/28/21 12:54	MB	TAL DEN
Total/NA	Prep	3546			353990	04/09/21 12:43	RJL	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	354466	04/16/21 13:14	JKM	TAL SEA
Total/NA	Prep	3050B			354312	04/14/21 10:45	TMH	TAL SEA
Total/NA	Analysis	6010D		1	354373	04/14/21 18:05	TMH	TAL SEA
Total/NA	Prep	7471A			353764	04/07/21 11:02	C1K	TAL SEA
Total/NA	Analysis	7471A		1	353973	04/08/21 15:57	C1K	TAL SEA

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Laboratory: Eurofins FGS, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-05-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-21-21
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-22
Connecticut	State	PH-0686	11-30-22
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-08-22
Illinois	NELAP	2000172019-1	04-30-21
Iowa	State	IA#370	12-02-21
Kansas	NELAP	E-10166	04-30-21
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Minnesota	NELAP	1788752	12-31-21
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-28-21
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-21
North Dakota	State	R-034	01-08-22
Oklahoma	State	2018-006	09-01-21
Oregon	NELAP	4025-011	01-08-22
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-22
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-20-18	09-30-21
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-21
Wisconsin	State	999615430	08-31-21
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Valley Science and Engineering
Project/Site: Folsom Rd

Job ID: 580-102231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-102231-1	SS-B1	Solid	04/02/21 09:50	04/03/21 10:00	
580-102231-2	SS-B2	Solid	04/02/21 10:20	04/03/21 10:00	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J. Penetar	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-42598-13614.1
Client Contact: ~~Christopher Cotton~~ Jessica Penetar	Phone: 609-227-1195	E-Mail: Nathan.Lewis@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Cascade Earth Sciences Inc.	PWSID:	**Analysis Requested**		Job #:
Address: 3511 Pacific Blvd Sw	**Due Date Requested:**			
City: Albany	**TAT Requested (days):** Standard			
State, Zip: OR, 97321	**Compliance Project:** Δ Yes Δ No			
Phone: 541-812-6621(Tel)	PO #: Purchase Order not required			
Email: ~~Christopher-Cotton~~ jessica.penetar@valmont.com	WO #:			
Project Name: General/Bridge Work	Project #: 58008847			
Site: Folsom Rd	SSOW#:			

Loc: 580
102231

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A - Herbicides, standard list	6010D, 7471A, 8081B, 8082A, 8270E_SIM, NWTPH_Dx	NWTPH_Gx - Northwest - GRO	8260D - Volatiles, standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	F	N	X	
SS-B1	4/2/21	950	C	Solid			X	X	X	X		
SS-B2	4/2/21	1020	C	Solid			X	X	X	X		
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Therm. ID: 8 Cor: 3.8 ° Unc: 4.1 °
Cooler Dsc: LB
Packing: BuB
Cust. Seal: Yes__ No ✓
Blue Ice, (Wet), Dry, None
FedEx:
UPS: NDA
Lab Cour:
Other:

580-102231 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Jessica Penetar	Date/Time: 4/2/21 1300	Company: CES	Received by: [signature]	Date/Time: 4-3-21 1000	Company: TASea
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

 Ver: 11/01/2020 4/30/2021

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins | Environment Testing America

4/30/2021

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-88708.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Nathan.Lewis@Eurofinset.com	State of Origin: Oregon	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon		Job #: 580-102231-1
Address: 4955 Yarrow Street,	Due Date Requested: 4/15/2021			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: Folsom Rd	Project #: 58008847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_SP Herbicides, standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-B1 (580-102231-1)	4/2/21	09:50 Pacific		Solid			X	1	
SS-B2 (580-102231-2)	4/2/21	10:20 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Frontier Global Sciences LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Frontier Global Sciences LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Frontier Global Sciences LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Frontier Global Sciences LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: Tom Kunkel	Date/Time: 4/15/21	Company EFGS Sea	Received by:	Date/Time: 4/16/2021 1210	Company FGT Den		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7 C.F+6.4 IR9

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Valley Science and Engineering

Job Number: 580-102231-1

Login Number: 102231
List Number: 1
Creator: Hobbs, Kenneth F

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Valley Science and Engineering

Job Number: 580-102231-1

Login Number: 102231
List Number: 2
Creator: Dubicki, Adam L

List Source: Eurofins TestAmerica, Denver
List Creation: 04/06/21 02:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-103069-1
Client Project/Site: General/Bridge Work

For:
Valley Science and Engineering
3511 Pacific Blvd Sw
Albany, Oregon 97321

Attn: Jessica Penetar

Authorized for release by:
5/28/2021 3:30:37 PM

Nathan Lewis, Project Manager I
(253)922-2310
Nathan.Lewis@Eurofinset.com

Table of Contents

Job ID: 580-103069-1

Laboratory: Eurofins FGS, Seattle

Narrative

Job Narrative
580-103069-1

Comments
No additional comments.

Receipt
The samples were received on 5/14/2021 9:44 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method 8260D: Elevated reporting limits are provided for the following sample due to insufficient sample for preparation: SS-03 (580-103069-1).

Method 8260D: Instrument issues were encountered during the analysis of sample Trip Blank (580-103069-5), and no usable data was obtained. This analysis was cancelled with client permission since the associated samples are non-detect.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8081B: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: SS-03 (580-103069-1), SS-04 (580-103069-2), SS-05 (580-103069-3), SS-06 (580-103069-4), (LCS 580-357363/2-A), (MB 580-357363/1-A), (580-103049-A-1-C), (580-103049-A-1-D MS) and (580-103049-A-1-E MSD).

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 580-357363 and analytical batch 580-357519 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8151A: The initial calibration verification (ICV) result for batch 280-537169 was below the lower control limit for 2,4,5-T and was above the upper control limit for 2,4-D and Silvex (2,4,5-TP) on the confirmation (back) column. Sample results were reported from the in control primary column.The associated samples are affected: SS-03 (580-103069-1), SS-04 (580-103069-2), SS-05 (580-103069-3) and SS-06 (580-103069-4).

Method 8151A: The continuing calibration verification (CCV) associated with batch 280-537169 recovered above the upper control limit for Silvex (2,4,5-TP), 2,4-D, 2,4-DB, Dichlorprop and MCPA. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SS-03 (580-103069-1), SS-04 (580-103069-2), SS-05 (580-103069-3) and SS-06 (580-103069-4).

Method 8151A: The following samples in preparation batch 280-536627 and analytical batch 280-537169 was diluted due to the nature of the sample matrix: SS-03 (580-103069-1), SS-04 (580-103069-2) and SS-05 (580-103069-3). Elevated reporting limits (RLs) are provided. The samples were diluted due to the brown color of the extract.

Method 8151A: The following sample in preparation batch 280-536627 and analytical batch 280-537169 was diluted due to the nature of the sample matrix: SS-06 (580-103069-4). Elevated reporting limits (RLs) are provided. The sample was diluted due to the yellow color of the extract.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Job ID: 580-103069-1 (Continued)

Laboratory: Eurofins FGS, Seattle (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 8151A: Insufficient sample (SS-03 (580-103069-1), SS-04 (580-103069-2), SS-05 (580-103069-3) and SS-06 (580-103069-4)) volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-536627 for method 8151A_SP/8151.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
Method 5035: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: SS-03 (580-103069-1). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was below this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-03
Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1
Matrix: Solid
Percent Solids: 89.5

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1500		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Chloromethane	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Vinyl chloride	ND		620		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Bromomethane	ND		620		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Chloroethane	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Trichlorofluoromethane	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1-Dichloroethene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Methylene Chloride	ND		1500		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
trans-1,2-Dichloroethene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1-Dichloroethane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
2,2-Dichloropropane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
cis-1,2-Dichloroethene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Bromochloromethane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Chloroform	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1,1-Trichloroethane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Carbon tetrachloride	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1-Dichloropropene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Benzene	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2-Dichloroethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Trichloroethene	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2-Dichloropropane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Dibromomethane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Bromodichloromethane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
cis-1,3-Dichloropropene	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Toluene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
trans-1,3-Dichloropropene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1,2-Trichloroethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Tetrachloroethene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,3-Dichloropropane	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Dibromochloromethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2-Dibromoethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Chlorobenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Ethylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1,1,2-Tetrachloroethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,1,2,2-Tetrachloroethane	ND		120		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
m-Xylene & p-Xylene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
o-Xylene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Styrene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Bromoform	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Isopropylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Bromobenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
N-Propylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2,3-Trichloropropane	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
2-Chlorotoluene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,3,5-Trimethylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
4-Chlorotoluene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
t-Butylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2,4-Trimethylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
sec-Butylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1

Client Sample ID: SS-03
Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1
Matrix: Solid
Percent Solids: 89.5

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
4-Isopropyltoluene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,4-Dichlorobenzene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
n-Butylbenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2-Dichlorobenzene	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2-Dibromo-3-Chloropropane	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2,4-Trichlorobenzene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
1,2,3-Trichlorobenzene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Hexachlorobutadiene	ND		620		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Naphthalene	ND		370		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1
Methyl tert-butyl ether	ND		250		ug/Kg	☼	05/16/21 14:04	05/16/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:27*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:27*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 121*	*05/16/21 14:04*	*05/16/21 22:27*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
2-Methylnaphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
1-Methylnaphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Acenaphthylene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Acenaphthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Fluorene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Phenanthrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Benzo[a]anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Chrysene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Benzo[b]fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Benzo[k]fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Benzo[a]pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Indeno[1,2,3-cd]pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Dibenz(a,h)anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1
Benzo[g,h,i]perylene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*107*		*42 - 130*	*05/25/21 20:21*	*05/27/21 11:59*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		11		mg/Kg	☼	05/20/21 09:51	05/21/21 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*50 - 150*	*05/20/21 09:51*	*05/21/21 14:29*	*1*

Client Sample ID: SS-03

Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1

Matrix: Solid
Percent Solids: 89.5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
4,4'-DDE	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
4,4'-DDT	**5.5**		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Aldrin	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
alpha-BHC	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
beta-BHC	ND		5.4		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
cis-Chlordane	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
delta-BHC	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Dieldrin	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endosulfan I	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endosulfan II	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endosulfan sulfate	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endrin	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endrin aldehyde	ND		22		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Endrin ketone	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
gamma-BHC (Lindane)	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Heptachlor	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Heptachlor epoxide	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Methoxychlor	ND		11		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
Toxaphene	ND		110		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1
trans-Chlordane	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*36 - 123*	*05/25/21 12:38*	*05/26/21 18:51*	*1*
Tetrachloro-m-xylene	*92*		*38 - 123*	*05/25/21 12:38*	*05/26/21 18:51*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		220		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
Dicamba	ND		220		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
Mecoprop	ND		44000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
MCPA	ND		44000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
Dichlorprop	ND		440		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
2,4-D	ND		440		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
Pentachlorophenol	ND		550		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
Silvex (2,4,5-TP)	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
2,4,5-T	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5
2,4-DB	ND		440		ug/Kg	☼	05/19/21 09:30	05/24/21 14:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*95*	*D*	*31 - 105*	*05/19/21 09:30*	*05/24/21 14:07*	*5*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		53		mg/Kg	☼	05/20/21 11:26	05/27/21 01:37	1
Motor Oil (>C24-C36)	ND		53		mg/Kg	☼	05/20/21 11:26	05/27/21 01:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*05/20/21 11:26*	*05/27/21 01:37*	*1*

Client Sample Results

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-03

Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1

Matrix: Solid
Percent Solids: 89.5

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.1		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Barium	**18**		0.52		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Cadmium	ND		1.0		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Chromium	**5.2**		1.4		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Lead	**3.5**		1.6		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Selenium	ND		5.2		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1
Silver	ND		2.6		mg/Kg	☼	05/18/21 15:35	05/18/21 19:17	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	05/22/21 11:54	05/25/21 15:48	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.5**		0.1		%			05/20/21 09:54	1
Percent Moisture	**10.5**		0.1		%			05/20/21 09:54	1

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid
Percent Solids: 91.4

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		290		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Chloromethane	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Vinyl chloride	ND		110		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Bromomethane	ND		110		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Chloroethane	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Trichlorofluoromethane	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1-Dichloroethene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Methylene Chloride	ND		290		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
trans-1,2-Dichloroethene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1-Dichloroethane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
2,2-Dichloropropane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
cis-1,2-Dichloroethene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Bromochloromethane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Chloroform	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1,1-Trichloroethane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Carbon tetrachloride	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1-Dichloropropene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Benzene	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2-Dichloroethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Trichloroethene	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2-Dichloropropane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Dibromomethane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Bromodichloromethane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
cis-1,3-Dichloropropene	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Toluene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
trans-1,3-Dichloropropene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1,2-Trichloroethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Tetrachloroethene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,3-Dichloropropane	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Dibromochloromethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2-Dibromoethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Chlorobenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Ethylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1,1,2-Tetrachloroethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,1,2,2-Tetrachloroethane	ND		23		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
m-Xylene & p-Xylene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
o-Xylene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Styrene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Bromoform	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Isopropylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Bromobenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
N-Propylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2,3-Trichloropropane	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
2-Chlorotoluene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,3,5-Trimethylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
4-Chlorotoluene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
t-Butylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2,4-Trimethylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
sec-Butylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid
Percent Solids: 91.4

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
4-Isopropyltoluene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,4-Dichlorobenzene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
n-Butylbenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2-Dichlorobenzene	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2-Dibromo-3-Chloropropane	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2,4-Trichlorobenzene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
1,2,3-Trichlorobenzene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Hexachlorobutadiene	ND		110		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Naphthalene	ND		69		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1
Methyl tert-butyl ether	ND		46		ug/Kg	☼	05/16/21 14:04	05/16/21 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:52*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:52*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*05/16/21 14:04*	*05/16/21 22:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*	*05/16/21 14:04*	*05/16/21 22:52*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
2-Methylnaphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
1-Methylnaphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Acenaphthylene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Acenaphthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Fluorene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Phenanthrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Benzo[a]anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Chrysene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Benzo[b]fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Benzo[k]fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Benzo[a]pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Indeno[1,2,3-cd]pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Dibenz(a,h)anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1
Benzo[g,h,i]perylene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*109*		*42 - 130*	*05/25/21 20:21*	*05/27/21 13:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.7		mg/Kg	☼	05/20/21 09:51	05/21/21 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*05/20/21 09:51*	*05/21/21 14:53*	*1*

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid
Percent Solids: 91.4

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
4,4'-DDE	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
4,4'-DDT	**5.8**		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Aldrin	ND		3.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
alpha-BHC	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
beta-BHC	ND		5.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
cis-Chlordane	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
delta-BHC	ND		3.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Dieldrin	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endosulfan I	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endosulfan II	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endosulfan sulfate	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endrin	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endrin aldehyde	ND		21		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Endrin ketone	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
gamma-BHC (Lindane)	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Heptachlor	ND		3.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Heptachlor epoxide	ND		3.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Methoxychlor	ND		10		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
Toxaphene	ND		100		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1
trans-Chlordane	ND		3.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*36 - 123*	*05/25/21 12:38*	*05/26/21 19:09*	*1*
Tetrachloro-m-xylene	*96*		*38 - 123*	*05/25/21 12:38*	*05/26/21 19:09*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		210		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
Dicamba	ND		210		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
Mecoprop	ND		42000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
MCPA	ND		42000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
Dichlorprop	ND		420		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
2,4-D	ND		420		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
Pentachlorophenol	ND		530		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
Silvex (2,4,5-TP)	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
2,4,5-T	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5
2,4-DB	ND		420		ug/Kg	☼	05/19/21 09:30	05/24/21 14:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*	*D*	*31 - 105*	*05/19/21 09:30*	*05/24/21 14:30*	*5*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		50		mg/Kg	☼	05/20/21 11:26	05/27/21 01:57	1
Motor Oil (>C24-C36)	ND		50		mg/Kg	☼	05/20/21 11:26	05/27/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*05/20/21 11:26*	*05/27/21 01:57*	*1*

Client Sample Results

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-04

Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2

Matrix: Solid
Percent Solids: 91.4

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.1		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Barium	**20**		0.52		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Cadmium	ND		1.0		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Chromium	**6.2**		1.3		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Lead	**4.1**		1.6		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Selenium	ND		5.2		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1
Silver	ND		2.6		mg/Kg	☼	05/18/21 15:35	05/18/21 19:47	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025		mg/Kg	☼	05/22/21 11:54	05/25/21 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**91.4**		0.1		%			05/21/21 10:01	1
Percent Moisture	**8.6**		0.1		%			05/21/21 10:01	1

Client Sample ID: SS-05
Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3
Matrix: Solid
Percent Solids: 91.9

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		260		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Chloromethane	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Vinyl chloride	ND		100		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Bromomethane	ND		100		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Chloroethane	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Trichlorofluoromethane	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1-Dichloroethene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Methylene Chloride	ND		260		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
trans-1,2-Dichloroethene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1-Dichloroethane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
2,2-Dichloropropane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
cis-1,2-Dichloroethene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Bromochloromethane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Chloroform	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1,1-Trichloroethane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Carbon tetrachloride	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1-Dichloropropene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Benzene	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2-Dichloroethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Trichloroethene	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2-Dichloropropane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Dibromomethane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Bromodichloromethane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
cis-1,3-Dichloropropene	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Toluene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
trans-1,3-Dichloropropene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1,2-Trichloroethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Tetrachloroethene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,3-Dichloropropane	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Dibromochloromethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2-Dibromoethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Chlorobenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Ethylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1,1,2-Tetrachloroethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,1,2,2-Tetrachloroethane	ND		20		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
m-Xylene & p-Xylene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
o-Xylene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Styrene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Bromoform	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Isopropylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Bromobenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
N-Propylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2,3-Trichloropropane	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
2-Chlorotoluene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,3,5-Trimethylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
4-Chlorotoluene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
t-Butylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2,4-Trimethylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
sec-Butylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1

Client Sample ID: SS-05
Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3
Matrix: Solid
Percent Solids: 91.9

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
4-Isopropyltoluene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,4-Dichlorobenzene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
n-Butylbenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2-Dichlorobenzene	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2-Dibromo-3-Chloropropane	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2,4-Trichlorobenzene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
1,2,3-Trichlorobenzene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Hexachlorobutadiene	ND		100		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Naphthalene	ND		61		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1
Methyl tert-butyl ether	ND		41		ug/Kg	☼	05/16/21 14:04	05/16/21 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:17*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*80 - 121*	*05/16/21 14:04*	*05/16/21 23:17*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
2-Methylnaphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
1-Methylnaphthalene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Acenaphthylene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Acenaphthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Fluorene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Phenanthrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Benzo[a]anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Chrysene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Benzo[b]fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Benzo[k]fluoranthene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Benzo[a]pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Indeno[1,2,3-cd]pyrene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Dibenz(a,h)anthracene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1
Benzo[g,h,i]perylene	ND		5.4		ug/Kg	☼	05/25/21 20:21	05/27/21 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*106*		*42 - 130*	*05/25/21 20:21*	*05/27/21 13:29*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.1		mg/Kg	☼	05/20/21 09:51	05/21/21 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*	*05/20/21 09:51*	*05/21/21 15:18*	*1*

Client Sample ID: SS-05

Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3

Matrix: Solid
Percent Solids: 91.9

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
4,4'-DDE	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
4,4'-DDT	**5.5**		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Aldrin	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
alpha-BHC	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
beta-BHC	ND		5.4		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
cis-Chlordane	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
delta-BHC	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Dieldrin	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endosulfan I	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endosulfan II	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endosulfan sulfate	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endrin	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endrin aldehyde	ND		22		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Endrin ketone	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
gamma-BHC (Lindane)	ND		2.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Heptachlor	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Heptachlor epoxide	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Methoxychlor	ND		11		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
Toxaphene	ND		110		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1
trans-Chlordane	ND		3.3		ug/Kg	☼	05/25/21 12:38	05/26/21 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*36 - 123*	*05/25/21 12:38*	*05/26/21 19:28*	*1*
Tetrachloro-m-xylene	*99*		*38 - 123*	*05/25/21 12:38*	*05/26/21 19:28*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		210		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
Dicamba	ND		210		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
Mecoprop	ND		43000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
MCPA	ND		43000		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
Dichlorprop	ND		430		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
2,4-D	ND		430		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
Pentachlorophenol	ND		530		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
Silvex (2,4,5-TP)	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
2,4,5-T	ND		110		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5
2,4-DB	ND		430		ug/Kg	☼	05/19/21 09:30	05/24/21 14:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*85*	*D*	*31 - 105*	*05/19/21 09:30*	*05/24/21 14:52*	*5*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		51		mg/Kg	☼	05/20/21 11:26	05/27/21 02:17	1
Motor Oil (>C24-C36)	ND		51		mg/Kg	☼	05/20/21 11:26	05/27/21 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*50 - 150*	*05/20/21 11:26*	*05/27/21 02:17*	*1*

Client Sample Results

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-05

Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3

Matrix: Solid
Percent Solids: 91.9

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.5		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Barium	**14**		0.42		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Cadmium	ND		0.85		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Chromium	**5.7**		1.1		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Lead	**2.8**		1.3		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Selenium	ND		4.2		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1
Silver	ND		2.1		mg/Kg	☼	05/18/21 15:35	05/18/21 19:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024		mg/Kg	☼	05/22/21 11:54	05/25/21 15:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**91.9**		0.1		%			05/21/21 10:01	1
Percent Moisture	**8.1**		0.1		%			05/21/21 10:01	1

Client Sample ID: SS-06
Date Collected: 05/13/21 11:45
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-4
Matrix: Solid
Percent Solids: 89.7

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		340		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Chloromethane	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Vinyl chloride	ND		130		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Bromomethane	ND		130		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Chloroethane	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Trichlorofluoromethane	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1-Dichloroethene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Methylene Chloride	ND		340		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
trans-1,2-Dichloroethene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1-Dichloroethane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
2,2-Dichloropropane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
cis-1,2-Dichloroethene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Bromochloromethane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Chloroform	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1,1-Trichloroethane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Carbon tetrachloride	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1-Dichloropropene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Benzene	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2-Dichloroethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Trichloroethene	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2-Dichloropropane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Dibromomethane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Bromodichloromethane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
cis-1,3-Dichloropropene	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Toluene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
trans-1,3-Dichloropropene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1,2-Trichloroethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Tetrachloroethene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,3-Dichloropropane	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Dibromochloromethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2-Dibromoethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Chlorobenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Ethylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1,1,2-Tetrachloroethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,1,2,2-Tetrachloroethane	ND		27		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
m-Xylene & p-Xylene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
o-Xylene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Styrene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Bromoform	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Isopropylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Bromobenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
N-Propylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2,3-Trichloropropane	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
2-Chlorotoluene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,3,5-Trimethylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
4-Chlorotoluene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
t-Butylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2,4-Trimethylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
sec-Butylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1

Client Sample ID: SS-06
Date Collected: 05/13/21 11:45
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-4
Matrix: Solid
Percent Solids: 89.7

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
4-Isopropyltoluene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,4-Dichlorobenzene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
n-Butylbenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2-Dichlorobenzene	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2-Dibromo-3-Chloropropane	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2,4-Trichlorobenzene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
1,2,3-Trichlorobenzene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Hexachlorobutadiene	ND		130		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Naphthalene	ND		80		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1
Methyl tert-butyl ether	ND		54		ug/Kg	☼	05/16/21 14:04	05/16/21 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:42*	*1*
4-Bromofluorobenzene (Surr)	*88*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:42*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*	*05/16/21 14:04*	*05/16/21 23:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*	*05/16/21 14:04*	*05/16/21 23:42*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
2-Methylnaphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
1-Methylnaphthalene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Acenaphthylene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Acenaphthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Fluorene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Phenanthrene	**6.3**		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Benzo[a]anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Chrysene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Benzo[b]fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Benzo[k]fluoranthene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Benzo[a]pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Indeno[1,2,3-cd]pyrene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Dibenz(a,h)anthracene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1
Benzo[g,h,i]perylene	ND		5.5		ug/Kg	☼	05/25/21 20:21	05/27/21 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*112*		*42 - 130*	*05/25/21 20:21*	*05/27/21 13:51*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**6.7**		6.7		mg/Kg	☼	05/20/21 09:51	05/21/21 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*05/20/21 09:51*	*05/21/21 15:42*	*1*

Client Sample ID: SS-06

Date Collected: 05/13/21 11:45
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-4

Matrix: Solid
Percent Solids: 89.7

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
4,4'-DDE	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
4,4'-DDT	**5.6**		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Aldrin	ND		3.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
alpha-BHC	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
beta-BHC	ND		5.4		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
cis-Chlordane	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
delta-BHC	ND		3.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Dieldrin	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endosulfan I	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endosulfan II	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endosulfan sulfate	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endrin	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endrin aldehyde	ND		21		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Endrin ketone	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
gamma-BHC (Lindane)	ND		2.1		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Heptachlor	ND		3.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Heptachlor epoxide	ND		3.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Methoxychlor	ND		11		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
Toxaphene	ND		110		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1
trans-Chlordane	ND		3.2		ug/Kg	☼	05/25/21 12:38	05/26/21 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*36 - 123*	*05/25/21 12:38*	*05/26/21 19:46*	*1*
Tetrachloro-m-xylene	*97*		*38 - 123*	*05/25/21 12:38*	*05/26/21 19:46*	*1*

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		86		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
Dicamba	ND		86		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
Mecoprop	ND		17000		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
MCPA	ND		17000		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
Dichlorprop	ND		170		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
2,4-D	ND		170		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
Pentachlorophenol	ND		210		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
Silvex (2,4,5-TP)	ND		43		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
2,4,5-T	ND		43		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2
2,4-DB	ND		170		ug/Kg	☼	05/19/21 09:30	05/24/21 15:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*75*	*D*	*31 - 105*	*05/19/21 09:30*	*05/24/21 15:14*	*2*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		55		mg/Kg	☼	05/20/21 11:26	05/27/21 02:37	1
Motor Oil (>C24-C36)	ND		55		mg/Kg	☼	05/20/21 11:26	05/27/21 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*05/20/21 11:26*	*05/27/21 02:37*	*1*

Client Sample Results

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-06

Date Collected: 05/13/21 11:45
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-4

Matrix: Solid
Percent Solids: 89.7

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		1.8		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Barium	**19**		0.29		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Cadmium	ND		0.59		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Chromium	**6.2**		0.77		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Lead	**11**		0.88		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Selenium	ND		2.9		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1
Silver	ND		1.5		mg/Kg	☼	05/18/21 15:35	05/18/21 19:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.026		mg/Kg	☼	05/22/21 11:54	05/25/21 15:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.7**		0.1		%			05/21/21 10:01	1
Percent Moisture	**10.3**		0.1		%			05/21/21 10:01	1

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: Trip Blank
Date Collected: 05/13/21 00:01
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-5
Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		05/20/21 09:51	05/20/21 11:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*50 - 150*	*05/20/21 09:51*	*05/20/21 11:59*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-356672/1-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		250		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Chloromethane	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Vinyl chloride	ND		100		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Bromomethane	ND		100		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Chloroethane	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Trichlorofluoromethane	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1-Dichloroethene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Methylene Chloride	ND		250		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
trans-1,2-Dichloroethene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1-Dichloroethane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
2,2-Dichloropropane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
cis-1,2-Dichloroethene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Bromochloromethane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Chloroform	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1,1-Trichloroethane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Carbon tetrachloride	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1-Dichloropropene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Benzene	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2-Dichloroethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Trichloroethene	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2-Dichloropropane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Dibromomethane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Bromodichloromethane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
cis-1,3-Dichloropropene	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Toluene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
trans-1,3-Dichloropropene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1,2-Trichloroethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Tetrachloroethene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,3-Dichloropropane	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Dibromochloromethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2-Dibromoethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Chlorobenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Ethylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1,1,2-Tetrachloroethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,1,2,2-Tetrachloroethane	ND		20		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
m-Xylene & p-Xylene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
o-Xylene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Styrene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Bromoform	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Isopropylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Bromobenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
N-Propylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2,3-Trichloropropane	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
2-Chlorotoluene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,3,5-Trimethylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
4-Chlorotoluene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
t-Butylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2,4-Trimethylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-356672/1-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,3-Dichlorobenzene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
4-Isopropyltoluene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,4-Dichlorobenzene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
n-Butylbenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2-Dichlorobenzene	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2-Dibromo-3-Chloropropane	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2,4-Trichlorobenzene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
1,2,3-Trichlorobenzene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Hexachlorobutadiene	ND		100		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Naphthalene	ND		60		ug/Kg		05/16/21 14:04	05/16/21 17:00	1
Methyl tert-butyl ether	ND		40		ug/Kg		05/16/21 14:04	05/16/21 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*	*05/16/21 14:04*	*05/16/21 17:00*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*05/16/21 14:04*	*05/16/21 17:00*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*05/16/21 14:04*	*05/16/21 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 121*	*05/16/21 14:04*	*05/16/21 17:00*	*1*

Lab Sample ID: LCS 580-356672/2-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	800	860		ug/Kg		107	24 - 150
Chloromethane	800	826		ug/Kg		103	52 - 150
Vinyl chloride	800	859		ug/Kg		107	54 - 150
Bromomethane	800	827		ug/Kg		103	42 - 150
Chloroethane	800	881		ug/Kg		110	50 - 150
Trichlorofluoromethane	800	843		ug/Kg		105	71 - 150
1,1-Dichloroethene	800	836		ug/Kg		104	73 - 143
Methylene Chloride	800	783		ug/Kg		98	66 - 140
trans-1,2-Dichloroethene	800	879		ug/Kg		110	77 - 134
1,1-Dichloroethane	800	862		ug/Kg		108	78 - 135
2,2-Dichloropropane	800	852		ug/Kg		106	62 - 150
cis-1,2-Dichloroethene	800	852		ug/Kg		106	68 - 132
Bromochloromethane	800	875		ug/Kg		109	76 - 131
Chloroform	800	843		ug/Kg		105	74 - 133
1,1,1-Trichloroethane	800	849		ug/Kg		106	78 - 144
Carbon tetrachloride	800	855		ug/Kg		107	66 - 150
1,1-Dichloropropene	800	862		ug/Kg		108	76 - 140
Benzene	800	832		ug/Kg		104	79 - 135
1,2-Dichloroethane	800	807		ug/Kg		101	76 - 132
Trichloroethene	800	870		ug/Kg		109	80 - 134
1,2-Dichloropropane	800	838		ug/Kg		105	65 - 136
Dibromomethane	800	834		ug/Kg		104	72 - 130
Bromodichloromethane	800	817		ug/Kg		102	73 - 125
cis-1,3-Dichloropropene	800	809		ug/Kg		101	80 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-356672/2-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	800	794		ug/Kg		99	75 - 137
trans-1,3-Dichloropropene	800	805		ug/Kg		101	80 - 121
1,1,2-Trichloroethane	800	795		ug/Kg		99	80 - 123
Tetrachloroethene	800	859		ug/Kg		107	58 - 150
1,3-Dichloropropane	800	789		ug/Kg		99	75 - 120
Dibromochloromethane	800	790		ug/Kg		99	75 - 132
1,2-Dibromoethane	800	817		ug/Kg		102	77 - 123
Chlorobenzene	800	806		ug/Kg		101	80 - 131
Ethylbenzene	800	834		ug/Kg		104	80 - 135
1,1,1,2-Tetrachloroethane	800	837		ug/Kg		105	79 - 128
1,1,2,2-Tetrachloroethane	800	768		ug/Kg		96	77 - 127
m-Xylene & p-Xylene	800	855		ug/Kg		107	80 - 132
o-Xylene	800	851		ug/Kg		106	80 - 132
Styrene	800	821		ug/Kg		103	79 - 129
Bromoform	800	759		ug/Kg		95	71 - 146
Isopropylbenzene	800	824		ug/Kg		103	81 - 140
Bromobenzene	800	840		ug/Kg		105	78 - 126
N-Propylbenzene	800	866		ug/Kg		108	68 - 149
1,2,3-Trichloropropane	800	755		ug/Kg		94	77 - 127
2-Chlorotoluene	800	866		ug/Kg		108	77 - 134
1,3,5-Trimethylbenzene	800	806		ug/Kg		101	72 - 142
4-Chlorotoluene	800	849		ug/Kg		106	71 - 137
t-Butylbenzene	800	789		ug/Kg		99	72 - 144
1,2,4-Trimethylbenzene	800	812		ug/Kg		101	73 - 138
sec-Butylbenzene	800	811		ug/Kg		101	71 - 143
1,3-Dichlorobenzene	800	833		ug/Kg		104	78 - 132
4-Isopropyltoluene	800	772		ug/Kg		97	71 - 142
1,4-Dichlorobenzene	800	824		ug/Kg		103	77 - 123
n-Butylbenzene	800	780		ug/Kg		98	69 - 143
1,2-Dichlorobenzene	800	831		ug/Kg		104	78 - 126
1,2-Dibromo-3-Chloropropane	800	761		ug/Kg		95	75 - 129
1,2,4-Trichlorobenzene	800	766		ug/Kg		96	74 - 131
1,2,3-Trichlorobenzene	800	792		ug/Kg		99	68 - 136
Hexachlorobutadiene	800	836		ug/Kg		104	65 - 150
Naphthalene	800	731		ug/Kg		91	64 - 136
Methyl tert-butyl ether	800	800		ug/Kg		100	77 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-356672/3-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 356672

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane			800	838		ug/Kg		105	24 - 150	3	40
Chloromethane			800	858		ug/Kg		107	52 - 150	4	26
Vinyl chloride			800	884		ug/Kg		110	54 - 150	3	40
Bromomethane			800	840		ug/Kg		105	42 - 150	1	40
Chloroethane			800	725		ug/Kg		91	50 - 150	19	31
Trichlorofluoromethane			800	832		ug/Kg		104	71 - 150	1	36
1,1-Dichloroethene			800	830		ug/Kg		104	73 - 143	1	34
Methylene Chloride			800	787		ug/Kg		98	66 - 140	1	30
trans-1,2-Dichloroethene			800	847		ug/Kg		106	77 - 134	4	33
1,1-Dichloroethane			800	843		ug/Kg		105	78 - 135	2	31
2,2-Dichloropropane			800	857		ug/Kg		107	62 - 150	1	40
cis-1,2-Dichloroethene			800	871		ug/Kg		109	68 - 132	2	32
Bromochloromethane			800	856		ug/Kg		107	76 - 131	2	28
Chloroform			800	841		ug/Kg		105	74 - 133	0	36
1,1,1-Trichloroethane			800	858		ug/Kg		107	78 - 144	1	38
Carbon tetrachloride			800	849		ug/Kg		106	66 - 150	1	39
1,1-Dichloropropene			800	868		ug/Kg		108	76 - 140	1	38
Benzene			800	842		ug/Kg		105	79 - 135	1	31
1,2-Dichloroethane			800	821		ug/Kg		103	76 - 132	2	29
Trichloroethene			800	888		ug/Kg		111	80 - 134	2	40
1,2-Dichloropropane			800	802		ug/Kg		100	65 - 136	4	37
Dibromomethane			800	848		ug/Kg		106	72 - 130	2	34
Bromodichloromethane			800	814		ug/Kg		102	73 - 125	0	40
cis-1,3-Dichloropropene			800	860		ug/Kg		107	80 - 122	6	40
Toluene			800	832		ug/Kg		104	75 - 137	5	34
trans-1,3-Dichloropropene			800	849		ug/Kg		106	80 - 121	5	40
1,1,2-Trichloroethane			800	840		ug/Kg		105	80 - 123	6	39
Tetrachloroethene			800	873		ug/Kg		109	58 - 150	2	40
1,3-Dichloropropane			800	824		ug/Kg		103	75 - 120	4	37
Dibromochloromethane			800	822		ug/Kg		103	75 - 132	4	40
1,2-Dibromoethane			800	864		ug/Kg		108	77 - 123	6	37
Chlorobenzene			800	841		ug/Kg		105	80 - 131	4	40
Ethylbenzene			800	871		ug/Kg		109	80 - 135	4	37
1,1,1,2-Tetrachloroethane			800	851		ug/Kg		106	79 - 128	2	40
1,1,2,2-Tetrachloroethane			800	836		ug/Kg		104	77 - 127	8	40
m-Xylene & p-Xylene			800	897		ug/Kg		112	80 - 132	5	38
o-Xylene			800	883		ug/Kg		110	80 - 132	4	39
Styrene			800	860		ug/Kg		108	79 - 129	5	40
Bromoform			800	832		ug/Kg		104	71 - 146	9	40
Isopropylbenzene			800	866		ug/Kg		108	81 - 140	5	40
Bromobenzene			800	880		ug/Kg		110	78 - 126	5	40
N-Propylbenzene			800	885		ug/Kg		111	68 - 149	2	40
1,2,3-Trichloropropane			800	837		ug/Kg		105	77 - 127	10	40
2-Chlorotoluene			800	896		ug/Kg		112	77 - 134	3	40
1,3,5-Trimethylbenzene			800	850		ug/Kg		106	72 - 142	5	40
4-Chlorotoluene			800	881		ug/Kg		110	71 - 137	4	40
t-Butylbenzene			800	839		ug/Kg		105	72 - 144	6	40
1,2,4-Trimethylbenzene			800	856		ug/Kg		107	73 - 138	5	40

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-356672/3-A
Matrix: Solid
Analysis Batch: 356725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 356672

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene			800	851		ug/Kg		106	71 - 143	5	40
1,3-Dichlorobenzene			800	867		ug/Kg		108	78 - 132	4	40
4-Isopropyltoluene			800	812		ug/Kg		101	71 - 142	5	40
1,4-Dichlorobenzene			800	859		ug/Kg		107	77 - 123	4	40
n-Butylbenzene			800	836		ug/Kg		104	69 - 143	7	40
1,2-Dichlorobenzene			800	867		ug/Kg		108	78 - 126	4	40
1,2-Dibromo-3-Chloropropane			800	908		ug/Kg		113	75 - 129	18	40
1,2,4-Trichlorobenzene			800	862		ug/Kg		108	74 - 131	12	40
1,2,3-Trichlorobenzene			800	880		ug/Kg		110	68 - 136	11	40
Hexachlorobutadiene			800	892		ug/Kg		112	65 - 150	7	36
Naphthalene			800	859		ug/Kg		107	64 - 136	16	40
Methyl tert-butyl ether			800	839		ug/Kg		105	77 - 132	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-357432/1-A
Matrix: Solid
Analysis Batch: 357588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
2-Methylnaphthalene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
1-Methylnaphthalene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Acenaphthylene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Acenaphthene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Fluorene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Phenanthrene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Anthracene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Fluoranthene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Pyrene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Benzo[a]anthracene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Chrysene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Benzo[a]pyrene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		05/25/21 20:21	05/27/21 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*111*		*42 - 130*	*05/25/21 20:21*	*05/27/21 11:15*	*1*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 580-357432/2-A
Matrix: Solid
Analysis Batch: 357588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1000	856		ug/Kg		86	48 - 120
2-Methylnaphthalene	1000	977		ug/Kg		98	58 - 130
1-Methylnaphthalene	1000	958		ug/Kg		96	53 - 120
Acenaphthylene	1000	965		ug/Kg		96	50 - 125
Acenaphthene	1000	942		ug/Kg		94	48 - 120
Fluorene	1000	982		ug/Kg		98	52 - 126
Phenanthrene	1000	991		ug/Kg		99	45 - 126
Anthracene	1000	740		ug/Kg		74	53 - 125
Fluoranthene	1000	946		ug/Kg		95	51 - 125
Pyrene	1000	905		ug/Kg		91	49 - 120
Benzo[a]anthracene	1000	1140		ug/Kg		114	66 - 120
Chrysene	1000	805		ug/Kg		81	49 - 120
Benzo[b]fluoranthene	1000	1050		ug/Kg		105	49 - 132
Benzo[k]fluoranthene	1000	786		ug/Kg		79	51 - 131
Benzo[a]pyrene	1000	1100		ug/Kg		110	51 - 124
Indeno[1,2,3-cd]pyrene	1000	848		ug/Kg		85	65 - 132
Dibenz(a,h)anthracene	1000	969		ug/Kg		97	55 - 133
Benzo[g,h,i]perylene	1000	982		ug/Kg		98	56 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*107*		*42 - 130*

Lab Sample ID: 580-103069-1 MS
Matrix: Solid
Analysis Batch: 357588

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 357432

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		1110	950		ug/Kg	☼	86	48 - 120
2-Methylnaphthalene	ND		1110	1080		ug/Kg	☼	98	58 - 130
1-Methylnaphthalene	ND		1110	1060		ug/Kg	☼	96	53 - 120
Acenaphthylene	ND		1110	994		ug/Kg	☼	90	50 - 125
Acenaphthene	ND		1110	978		ug/Kg	☼	88	48 - 120
Fluorene	ND		1110	1010		ug/Kg	☼	91	52 - 126
Phenanthrene	ND		1110	1110		ug/Kg	☼	101	45 - 126
Anthracene	ND		1110	821		ug/Kg	☼	74	53 - 125
Fluoranthene	ND		1110	1080		ug/Kg	☼	97	51 - 125
Pyrene	ND		1110	1020		ug/Kg	☼	92	49 - 120
Benzo[a]anthracene	ND		1110	1260		ug/Kg	☼	114	66 - 120
Chrysene	ND		1110	893		ug/Kg	☼	81	49 - 120
Benzo[b]fluoranthene	ND		1110	1130		ug/Kg	☼	102	49 - 132
Benzo[k]fluoranthene	ND		1110	797		ug/Kg	☼	72	51 - 131
Benzo[a]pyrene	ND		1110	1170		ug/Kg	☼	106	51 - 124
Indeno[1,2,3-cd]pyrene	ND		1110	932		ug/Kg	☼	84	65 - 132
Dibenz(a,h)anthracene	ND		1110	1040		ug/Kg	☼	94	55 - 133
Benzo[g,h,i]perylene	ND		1110	1060		ug/Kg	☼	96	56 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Terphenyl-d14	*107*		*42 - 130*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: 580-103069-1 MSD
Matrix: Solid
Analysis Batch: 357588

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 357432

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1110	958		ug/Kg	☼	86	48 - 120	1	10
2-Methylnaphthalene	ND		1110	1110		ug/Kg	☼	99	58 - 130	2	10
1-Methylnaphthalene	ND		1110	1080		ug/Kg	☼	97	53 - 120	1	10
Acenaphthylene	ND		1110	1030		ug/Kg	☼	92	50 - 125	3	10
Acenaphthene	ND		1110	1000		ug/Kg	☼	90	48 - 120	3	10
Fluorene	ND		1110	1040		ug/Kg	☼	94	52 - 126	3	10
Phenanthrene	ND		1110	1130		ug/Kg	☼	102	45 - 126	2	10
Anthracene	ND		1110	833		ug/Kg	☼	75	53 - 125	2	40
Fluoranthene	ND		1110	1080		ug/Kg	☼	97	51 - 125	0	10
Pyrene	ND		1110	1030		ug/Kg	☼	93	49 - 120	1	10
Benzo[a]anthracene	ND		1110	1270		ug/Kg	☼	114	66 - 120	1	14
Chrysene	ND		1110	901		ug/Kg	☼	81	49 - 120	1	10
Benzo[b]fluoranthene	ND		1110	1140		ug/Kg	☼	103	49 - 132	1	10
Benzo[k]fluoranthene	ND		1110	835		ug/Kg	☼	75	51 - 131	5	10
Benzo[a]pyrene	ND		1110	1210		ug/Kg	☼	108	51 - 124	3	40
Indeno[1,2,3-cd]pyrene	ND		1110	957		ug/Kg	☼	86	65 - 132	3	10
Dibenz(a,h)anthracene	ND		1110	1060		ug/Kg	☼	95	55 - 133	1	13
Benzo[g,h,i]perylene	ND		1110	1090		ug/Kg	☼	98	56 - 128	2	10

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14	*105*		*42 - 130*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-356977/1-A
Matrix: Solid
Analysis Batch: 357093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0		mg/Kg		05/20/21 09:51	05/20/21 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*	*05/20/21 09:51*	*05/20/21 10:46*	*1*

Lab Sample ID: LCS 580-356977/2-A
Matrix: Solid
Analysis Batch: 357093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	34.9		mg/Kg		87	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-356977/3-A
Matrix: Solid
Analysis Batch: 357093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 356977

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	36.3		mg/Kg		91	80 - 120	4	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 580-357363/1-A
Matrix: Solid
Analysis Batch: 357519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
4,4'-DDE	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
4,4'-DDT	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Aldrin	ND		3.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
alpha-BHC	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
beta-BHC	ND		5.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
cis-Chlordane	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
delta-BHC	ND		3.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Dieldrin	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endosulfan I	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endosulfan II	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endrin	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endrin aldehyde	ND		20		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Endrin ketone	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Heptachlor	ND		3.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Heptachlor epoxide	ND		3.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Methoxychlor	ND		10		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
Toxaphene	ND		100		ug/Kg		05/25/21 12:38	05/26/21 17:02	1
trans-Chlordane	ND		3.0		ug/Kg		05/25/21 12:38	05/26/21 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*36 - 123*	*05/25/21 12:38*	*05/26/21 17:02*	*1*
Tetrachloro-m-xylene	*93*		*38 - 123*	*05/25/21 12:38*	*05/26/21 17:02*	*1*

Lab Sample ID: LCS 580-357363/2-A
Matrix: Solid
Analysis Batch: 357519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
4,4'-DDD			20.0	18.7		ug/Kg		94	61 - 132		
4,4'-DDE			20.0	19.4		ug/Kg		97	59 - 124		
4,4'-DDT			20.0	19.7		ug/Kg		98	57 - 124		
Aldrin			20.0	19.5		ug/Kg		97	56 - 121		
alpha-BHC			20.0	18.7		ug/Kg		94	62 - 120		

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 580-357363/2-A
Matrix: Solid
Analysis Batch: 357519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	20.0	18.6		ug/Kg		93	53 - 138
cis-Chlordane	20.0	20.5		ug/Kg		103	62 - 125
delta-BHC	20.0	18.1		ug/Kg		90	60 - 124
Dieldrin	20.0	19.4		ug/Kg		97	61 - 121
Endosulfan I	20.0	19.7		ug/Kg		99	57 - 121
Endosulfan II	20.0	19.7		ug/Kg		98	47 - 125
Endosulfan sulfate	20.0	20.1		ug/Kg		100	50 - 132
Endrin	20.0	20.2		ug/Kg		101	56 - 131
Endrin aldehyde	20.0	20.6		ug/Kg		103	45 - 136
Endrin ketone	20.0	20.1		ug/Kg		101	56 - 128
gamma-BHC (Lindane)	20.0	19.1		ug/Kg		96	55 - 120
Heptachlor	20.0	19.9		ug/Kg		99	57 - 124
Heptachlor epoxide	20.0	19.8		ug/Kg		99	62 - 120
Methoxychlor	20.0	20.9		ug/Kg		104	51 - 133
trans-Chlordane	20.0	19.6		ug/Kg		98	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*111*		*36 - 123*
Tetrachloro-m-xylene	*101*		*38 - 123*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 280-536627/1-A
Matrix: Solid
Analysis Batch: 537169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 536627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	ND		40		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
Dicamba	ND		40		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
Mecoprop	ND		8000		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
MCPA	ND		8000		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
Dichlorprop	ND		80		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
2,4-D	ND		80		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
Pentachlorophenol	ND		100		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
Silvex (2,4,5-TP)	ND		20		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
2,4,5-T	ND		20		ug/Kg		05/19/21 09:30	05/24/21 13:00	1
2,4-DB	ND		80		ug/Kg		05/19/21 09:30	05/24/21 13:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*74*		*31 - 105*	*05/19/21 09:30*	*05/24/21 13:00*	*1*

Lab Sample ID: LCS 280-536627/2-A
Matrix: Solid
Analysis Batch: 537169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dalapon	100	56.6		ug/Kg		57	25 - 102
Dicamba	100	67.2		ug/Kg		67	25 - 92

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 280-536627/2-A
Matrix: Solid
Analysis Batch: 537169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 536627

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mecoprop			10000	7840	J	ug/Kg		78	20 - 112		
MCPA			10000	7890	J	ug/Kg		79	15 - 100		
Dichlorprop			100	74.2	J	ug/Kg		74	24 - 98		
2,4-D			100	80.3		ug/Kg		80	22 - 105		
Pentachlorophenol			100	82.2	J	ug/Kg		82	28 - 97		
Silvex (2,4,5-TP)			100	63.6		ug/Kg		64	26 - 100		
2,4,5-T			100	66.5		ug/Kg		66	22 - 102		
2,4-DB			100	36.4	J	ug/Kg		36	21 - 98		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*69*		*31 - 105*

Lab Sample ID: LCSD 280-536627/3-A
Matrix: Solid
Analysis Batch: 537169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 536627

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dalapon			100	57.8		ug/Kg		58	25 - 102	2	50
Dicamba			100	62.2		ug/Kg		62	25 - 92	8	50
Mecoprop			10000	7660	J	ug/Kg		77	20 - 112	2	50
MCPA			10000	8280		ug/Kg		83	15 - 100	5	50
Dichlorprop			100	73.4	J	ug/Kg		73	24 - 98	1	50
2,4-D			100	76.8	J	ug/Kg		77	22 - 105	4	40
Pentachlorophenol			100	65.5	J	ug/Kg		65	28 - 97	23	40
Silvex (2,4,5-TP)			100	61.0		ug/Kg		61	26 - 100	4	40
2,4,5-T			100	64.5		ug/Kg		64	22 - 102	3	40
2,4-DB			100	36.8	J	ug/Kg		37	21 - 98	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*70*		*31 - 105*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-356832/19-A
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 356832

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Barium	ND		0.50		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Cadmium	ND		1.0		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Chromium	ND		1.3		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Lead	ND		1.5		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Selenium	ND		5.0		mg/Kg		05/18/21 15:35	05/18/21 19:08	1
Silver	ND		2.5		mg/Kg		05/18/21 15:35	05/18/21 19:08	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 580-356832/20-A
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 356832

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.1		mg/Kg		100	80 - 120
Barium	50.0	52.4		mg/Kg		105	80 - 120
Cadmium	50.0	50.1		mg/Kg		100	80 - 120
Chromium	50.0	54.3		mg/Kg		109	80 - 120
Lead	50.0	52.0		mg/Kg		104	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120
Silver	50.0	52.9		mg/Kg		106	80 - 120

Lab Sample ID: LCSD 580-356832/21-A
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 356832

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50.0	49.8		mg/Kg		100	80 - 120	1	20
Barium	50.0	52.0		mg/Kg		104	80 - 120	1	20
Cadmium	50.0	49.8		mg/Kg		100	80 - 120	1	20
Chromium	50.0	54.0		mg/Kg		108	80 - 120	1	20
Lead	50.0	51.8		mg/Kg		104	80 - 120	0	20
Selenium	50.0	50.2		mg/Kg		100	80 - 120	2	20
Silver	50.0	52.2		mg/Kg		104	80 - 120	1	20

Lab Sample ID: 580-103069-1 MS
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 356832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		50.8	48.2		mg/Kg	☼	91	80 - 120
Barium	18		50.8	66.4		mg/Kg	☼	96	80 - 120
Cadmium	ND		50.8	49.9		mg/Kg	☼	98	80 - 120
Chromium	5.2		50.8	56.9		mg/Kg	☼	102	80 - 120
Lead	3.5		50.8	53.5		mg/Kg	☼	98	80 - 120
Selenium	ND		50.8	45.3		mg/Kg	☼	89	80 - 120
Silver	ND		50.8	49.7		mg/Kg	☼	98	80 - 120

Lab Sample ID: 580-103069-1 MSD
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 356832

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		53.0	51.1		mg/Kg	☼	92	80 - 120	6	20
Barium	18		53.0	68.9		mg/Kg	☼	97	80 - 120	4	20
Cadmium	ND		53.0	52.3		mg/Kg	☼	98	80 - 120	5	20
Chromium	5.2		53.0	58.0		mg/Kg	☼	100	80 - 120	2	20
Lead	3.5		53.0	56.4		mg/Kg	☼	100	80 - 120	5	20
Selenium	ND		53.0	48.0		mg/Kg	☼	90	80 - 120	6	20
Silver	ND		53.0	51.4		mg/Kg	☼	97	80 - 120	3	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 580-103069-1 DU
Matrix: Solid
Analysis Batch: 356905

Client Sample ID: SS-03
Prep Type: Total/NA
Prep Batch: 356832

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	ND			ND		mg/Kg	☼			NC	20
Barium	18			16.4		mg/Kg	☼			7	20
Cadmium	ND			ND		mg/Kg	☼			NC	20
Chromium	5.2			2.91	F3	mg/Kg	☼			57	20
Lead	3.5			2.45	F5	mg/Kg	☼			36	20
Selenium	ND			ND		mg/Kg	☼			NC	20
Silver	ND			ND		mg/Kg	☼			NC	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 580-357178/21-A
Matrix: Solid
Analysis Batch: 357467

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 357178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.030		mg/Kg		05/22/21 11:54	05/25/21 15:12	1

Lab Sample ID: LCS 580-357178/22-A
Matrix: Solid
Analysis Batch: 357467

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 357178

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.171		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 580-357178/23-A
Matrix: Solid
Analysis Batch: 357467

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 357178

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.167	0.177		mg/Kg		106	80 - 120	3	20

Client Sample ID: SS-03
Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	356975	05/20/21 09:54	HDG	FGS SEA

Client Sample ID: SS-03
Date Collected: 05/13/21 09:50
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-1
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356672	05/16/21 14:04	ASJ	FGS SEA
Total/NA	Analysis	8260D		1	356725	05/16/21 22:27	T1W	FGS SEA
Total/NA	Prep	3546			357432	05/25/21 20:21	CCH	FGS SEA
Total/NA	Analysis	8270E SIM		1	357588	05/27/21 11:59	CJ	FGS SEA
Total/NA	Prep	5035			356977	05/20/21 09:51	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	357125	05/21/21 14:29	JSM	FGS SEA
Total/NA	Prep	3546			357363	05/25/21 12:38	CCH	FGS SEA
Total/NA	Analysis	8081B		1	357519	05/26/21 18:51	T1W	FGS SEA
Total/NA	Prep	8151A			536627	05/19/21 09:30	DB	TAL DEN
Total/NA	Analysis	8151A		5	537169	05/24/21 14:07	MB	TAL DEN
Total/NA	Prep	3546			356995	05/20/21 11:26	ABP	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	357538	05/27/21 01:37	T1W	FGS SEA
Total/NA	Prep	3050B			356832	05/18/21 15:35	JLS	FGS SEA
Total/NA	Analysis	6010D		1	356905	05/18/21 19:17	TMH	FGS SEA
Total/NA	Prep	7471A			357178	05/22/21 11:54	JCP	FGS SEA
Total/NA	Analysis	7471A		1	357467	05/25/21 15:48	C1K	FGS SEA

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	357099	05/21/21 10:01	HDG	FGS SEA

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356672	05/16/21 14:04	ASJ	FGS SEA
Total/NA	Analysis	8260D		1	356725	05/16/21 22:52	T1W	FGS SEA
Total/NA	Prep	3546			357432	05/25/21 20:21	CCH	FGS SEA
Total/NA	Analysis	8270E SIM		1	357588	05/27/21 13:06	CJ	FGS SEA
Total/NA	Prep	5035			356977	05/20/21 09:51	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	357125	05/21/21 14:53	JSM	FGS SEA
Total/NA	Prep	3546			357363	05/25/21 12:38	CCH	FGS SEA
Total/NA	Analysis	8081B		1	357519	05/26/21 19:09	T1W	FGS SEA

Lab Chronicle

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-04
Date Collected: 05/13/21 10:30
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-2
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			536627	05/19/21 09:30	DB	TAL DEN
Total/NA	Analysis	8151A		5	537169	05/24/21 14:30	MB	TAL DEN
Total/NA	Prep	3546			356995	05/20/21 11:26	ABP	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	357538	05/27/21 01:57	T1W	FGS SEA
Total/NA	Prep	3050B			356832	05/18/21 15:35	JLS	FGS SEA
Total/NA	Analysis	6010D		1	356905	05/18/21 19:47	TMH	FGS SEA
Total/NA	Prep	7471A			357178	05/22/21 11:54	JCP	FGS SEA
Total/NA	Analysis	7471A		1	357467	05/25/21 15:51	C1K	FGS SEA

Client Sample ID: SS-05
Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	357099	05/21/21 10:01	HDG	FGS SEA

Client Sample ID: SS-05
Date Collected: 05/13/21 11:05
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-3
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356672	05/16/21 14:04	ASJ	FGS SEA
Total/NA	Analysis	8260D		1	356725	05/16/21 23:17	T1W	FGS SEA
Total/NA	Prep	3546			357432	05/25/21 20:21	CCH	FGS SEA
Total/NA	Analysis	8270E SIM		1	357588	05/27/21 13:29	CJ	FGS SEA
Total/NA	Prep	5035			356977	05/20/21 09:51	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	357125	05/21/21 15:18	JSM	FGS SEA
Total/NA	Prep	3546			357363	05/25/21 12:38	CCH	FGS SEA
Total/NA	Analysis	8081B		1	357519	05/26/21 19:28	T1W	FGS SEA
Total/NA	Prep	8151A			536627	05/19/21 09:30	DB	TAL DEN
Total/NA	Analysis	8151A		5	537169	05/24/21 14:52	MB	TAL DEN
Total/NA	Prep	3546			356995	05/20/21 11:26	ABP	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	357538	05/27/21 02:17	T1W	FGS SEA
Total/NA	Prep	3050B			356832	05/18/21 15:35	JLS	FGS SEA
Total/NA	Analysis	6010D		1	356905	05/18/21 19:51	TMH	FGS SEA
Total/NA	Prep	7471A			357178	05/22/21 11:54	JCP	FGS SEA
Total/NA	Analysis	7471A		1	357467	05/25/21 15:53	C1K	FGS SEA

Client Sample ID: SS-06
Date Collected: 05/13/21 11:45
Date Received: 05/14/21 09:44

Lab Sample ID: 580-103069-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	357099	05/21/21 10:01	HDG	FGS SEA

Lab Chronicle

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Client Sample ID: SS-06

Lab Sample ID: 580-103069-4

Date Collected: 05/13/21 11:45
Matrix: Solid
Date Received: 05/14/21 09:44
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356672	05/16/21 14:04	ASJ	FGS SEA
Total/NA	Analysis	8260D		1	356725	05/16/21 23:42	T1W	FGS SEA
Total/NA	Prep	3546			357432	05/25/21 20:21	CCH	FGS SEA
Total/NA	Analysis	8270E SIM		1	357588	05/27/21 13:51	CJ	FGS SEA
Total/NA	Prep	5035			356977	05/20/21 09:51	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	357125	05/21/21 15:42	JSM	FGS SEA
Total/NA	Prep	3546			357363	05/25/21 12:38	CCH	FGS SEA
Total/NA	Analysis	8081B		1	357519	05/26/21 19:46	T1W	FGS SEA
Total/NA	Prep	8151A			536627	05/19/21 09:30	DB	TAL DEN
Total/NA	Analysis	8151A		2	537169	05/24/21 15:14	MB	TAL DEN
Total/NA	Prep	3546			356995	05/20/21 11:26	ABP	FGS SEA
Total/NA	Analysis	NWTPH-Dx		1	357538	05/27/21 02:37	T1W	FGS SEA
Total/NA	Prep	3050B			356832	05/18/21 15:35	JLS	FGS SEA
Total/NA	Analysis	6010D		1	356905	05/18/21 19:54	TMH	FGS SEA
Total/NA	Prep	7471A			357178	05/22/21 11:54	JCP	FGS SEA
Total/NA	Analysis	7471A		1	357467	05/25/21 15:55	C1K	FGS SEA

Client Sample ID: Trip Blank

Lab Sample ID: 580-103069-5

Date Collected: 05/13/21 00:01
Matrix: Solid
Date Received: 05/14/21 09:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			356977	05/20/21 09:51	JSM	FGS SEA
Total/NA	Analysis	NWTPH-Gx		1	357093	05/20/21 11:59	JSM	FGS SEA

Laboratory References:

FGS SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Laboratory: Eurofins FGS, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-05-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	02-28-22
Arizona	State	AZ0713	12-21-21
Arkansas DEQ	State	19-047-0	06-01-21
California	State	2513	01-08-22
Connecticut	State	PH-0686	11-30-22
Florida	NELAP	E87667-57	07-01-21
Georgia	State	4025-011	01-08-22
Illinois	NELAP	2000172019-1	04-30-21 *
Iowa	State	IA#370	12-02-21
Kansas	NELAP	E-10166	04-30-22
Louisiana	NELAP	30785	06-30-14 *
Louisiana	NELAP	30785	06-30-21
Minnesota	NELAP	1788752	12-31-21
Nevada	State	CO000262020-1	07-31-21
New Hampshire	NELAP	205319	04-29-22
New Jersey	NELAP	190002	06-30-21
New York	NELAP	59923	04-01-22
North Carolina (WW/SW)	State	358	12-31-21
North Dakota	State	R-034	01-08-22
Oklahoma	State	2018-006	09-01-21
Oregon	NELAP	4025-011	01-08-22
Pennsylvania	NELAP	013	07-31-21
South Carolina	State	72002001	01-08-22
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183-20-18	09-30-21
US Fish & Wildlife	US Federal Programs	058448	08-01-21
USDA	US Federal Programs	P330-20-00065	03-06-23
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO000262019-11	07-31-21
Virginia	NELAP	10490	06-14-21
Washington	State	C583-19	08-03-21
West Virginia DEP	State	354	11-30-21
Wisconsin	State	999615430	08-31-21
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Valley Science and Engineering
Project/Site: General/Bridge Work

Job ID: 580-103069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-103069-1	SS-03	Solid	05/13/21 09:50	05/14/21 09:44	
580-103069-2	SS-04	Solid	05/13/21 10:30	05/14/21 09:44	
580-103069-3	SS-05	Solid	05/13/21 11:05	05/14/21 09:44	
580-103069-4	SS-06	Solid	05/13/21 11:45	05/14/21 09:44	
580-103069-5	Trip Blank	Solid	05/13/21 00:01	05/14/21 09:44	

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J Peretar	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-42905-13698.1
Client Contact: ~~Christopher Cotton~~ Jessica Peretar	Phone: 609-227-1195	E-Mail: Nathan.Lewis@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ~~Cascade Earth Sciences Inc.~~ Valley Survey + Engineering	PWSID:			Job #:
Address: 3511 Pacific Blvd Sw	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone: 541-812-6621(Tel)	PO #: Purchase Order not required			
Email: jessica.peretar ~~Christopher.Cotton~~@valmont.com	WO #:			
Project Name: General/Bridge Work	Project #: 58008847			
Site: Folsom Rd, Mill Creek	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Gx - Northwest - GRO	8260D - Volatiles, standard list	Herb - 8151A	PAH - 8270E SIM	RCRA Metals 6010D	Mercury 7471A	Pest - 8081B	NWTPH - DX ORO/RRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N								
SS-03	5/13/21	950	C	Solid			X	X	X	X	X	X	X	X		
SS-04		1030	C													
SS-05		1105	C													
SS-06		1145	C													
Trip blank							X	X								

580-103069 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/13 1430	Valley		5/13 1530 5/14/21 944	EFGS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9

Ver: 11/01/2020

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: J Peretas	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-42905-13698.1
Client Contact: ~~Christopher Cotton~~ Jessica Peretas	Phone: 609-227-1195	E-Mail: Nathan.Lewis@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: ~~Cascade Earth Sciences Inc.~~ Valley Sierra Engineering	PWSID:	Analysis Requested		Job #:
Address: 3511 Pacific Blvd Sw	Due Date Requested:			Preservation Codes:
City: Albany	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: OR, 97321	Compliance Project: Δ Yes Δ No			
Phone: 541-812-6621(Tel)	PO #: Purchase Order not required			
Email: ~~Christopher.Cotton~~ jessica.peretas@valmont.com	WO #:			
Project Name: General/Bridge Work	Project #: 58008847			
Site: Folsom Rd, Mill creek	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH_Gx - Northwest - GRO	8260D - Volatiles, standard list	Herb - 8151A	PAH - 8270E SIM	RCRA Metals 6010D	Mercury 7471A	Pest - 8081B	NWTPH - DX ORO/RRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N								
SS-03	5/13/21	950	C	Solid			X	X	X	X	X	X	X	X		
SS-04	↓	1030	C	↓												
SS-05		1105	C													
SS-06		1145	C													
Trip blank							X	X								

580-103069 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5/13 1430	Valley		5/13/50 5/14/21 944	EFGS
2		5/14/21 1700	EFGS		5/15/21 1000	EDGS
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.9

MRL = 0.1 / A.1

Eurofins FGS, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 425-420-9210

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-90156.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Nathan.Lewis@Eurofinset.com	State of Origin: Oregon	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon		Job #: 580-103069-1
Address: 4955 Yarrow Street,	Due Date Requested: 5/27/2021			
City: Arvada	TAT Requested (days):			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #:			
Email:	WO #:			
Project Name: General/Bridge Work	Project #: 58008847			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_SP (MOD) Herbicides, standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SS-03 (580-103069-1)	5/13/21	09:50 Pacific		Solid			X	1	
SS-04 (580-103069-2)	5/13/21	10:30 Pacific		Solid			X	1	
SS-05 (580-103069-3)	5/13/21	11:05 Pacific		Solid			X	1	
SS-06 (580-103069-4)	5/13/21	11:45 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Frontier Global Sciences LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Frontier Global Sciences LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Frontier Global Sciences LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Frontier Global Sciences LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		5/17/21 1400	EFGS		5/18/2021 955	EFGS
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.4 FRII CF 0.4

Ver: 11/01/2020

5/28/2021

Login Sample Receipt Checklist

Client: Valley Science and Engineering

Job Number: 580-103069-1

Login Number: 103069
List Number: 1
Creator: O'Connell, Jason I

List Source: Eurofins FGS, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Valley Science and Engineering

Job Number: 580-103069-1

Login Number: 103069
List Number: 2
Creator: Dubicki, Adam L

List Source: Eurofins TestAmerica, Denver
List Creation: 05/18/21 01:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	