Request for Proposal

Seaside, Oregon Affordable Housing Development



Closing Date and Time: 5 pm April 13, 2024

RFP Posted: March 14, 2024

Clarification Inquires: April 1, 2024

Proposals Due: April 13, 2024

City of Seaside 989 Broadway Seaside, OR 97138

City of Seaside, Oregon

Notice and Request for Proposals for:

Affordable Housing Development

Proposals are due at 5:00 pm PST on April 13, 2024

The City of Seaside is soliciting proposals from qualified developers to build an Affordable Housing complex at the city-owned North-North Forty property (Tax lots 61015BA06100 & 61015BA06500).

RFP submissions must be submitted digitally and received by Jeff Flory, Community Development Director, at 989 Broadway Seaside, OR 97138 on or before 5:00 pm PST on April 13, 2024. Envelopes containing digital media (USB Flash Drive) should be clearly marked "Affordable Housing: North – North 40." Coordinate e-mailed submissions to jflory@cityofsesaside.us. Late submissions will not be accepted.

The City of Seaside reserves the right to reject proposals not in compliance with the prescribed procedures and requirements set forth in the RFP and may reject for good cause any or all responses upon a finding of the City that it is in the public interest to do so.

All requests for clarification must be submitted in writing no later than April 1, 2024, to Jeff Flory, Community Development Director at <u>iflory@cityofseaside.us</u> or by mail to:

Community Development 989 Broadway Seaside, OR 97138.

City Information:

The City of Seaside, Oregon is home to approximately 7,234 residents and has experienced moderate growth since the year 2000. At an average annual growth rate of approximately .96% per year for the past 20 years, Seaside is projected to continue to steadily grow for the foreseeable future.

Seaside has a Council/Manager form of government and employs a City Manager to oversee the daily operations and individual city departments. There are unique challenges facing the city and its growth and popularity, including the following:

- The City of Seaside is located right on the Oregon coast and within a one-and-a-half-hour drive of Oregon's largest metropolitan area, Seaside is one of the most visited towns in Oregon with an estimated 1.3 million annual visitors. Estimates suggest 41% of these visitors arrive between July 1 and September 30 making our summer months the busiest time of year. While our permanent resident population is approximately 7,234 residents, our average daily population is estimated at around 20,732.
- Seaside's tourist-driven economy has created a significant need for workforce and affordable housing. Seaside is constantly seeking a balance between full-time residential housing units and units designed for transient occupancy (hotels, motels, vacation rentals, etc.). A significant portion of Seaside's housing stock is second homes and not full-time residences, making the number of available housing units for local residents scarce.
- Seaside's proximity to the beach and the division of the town by the Necanicum River puts Seaside in a unique and vulnerable situation in the event of a natural disaster, specifically a Cascadia Subduction Zone earthquake and potential subsequent tsunami.
- The Pacific Ocean, wetlands, coastal rivers and streams, geotechnical hazard areas, and estuarine resources make Seaside's buildable lands limited. The limitation on buildable areas creates a challenge in accommodating growth in both the transient and local populations.

Introduction and Objectives:

The City of Seaside, situated approximately 16 miles south of Astoria, is confronted with significant challenges regarding housing affordability, a prevailing issue impacting the entire region. Escalating rental and ownership costs have outpaced the financial capabilities of residents, particularly those at or below the median income threshold. In response to this widespread concern and in collaboration with local jurisdictions, Clatsop County has identified surplus properties for potential development aimed at creating affordable housing solutions.

One such property, located on the north end of Seaside adjacent to Highway 101 and in close proximity to the former Seaside High School, has been acquired by the City for this purpose. The City now seeks a professional developer or firm to optimize the utilization of this approximately 1.85-acre site for the construction of affordable housing units.

Aligned with the objectives outlined in the City Council's Strategic Blueprint for 2023, which prioritizes the development of workforce housing and efforts to alleviate homelessness, this project endeavors to contribute to the expansion of the rental inventory with affordable units while providing stable housing for families facing housing instability.

The primary aim of the City is to facilitate the development of housing units tailored for rental to households earning less than 80% of the Area Median Income (AMI) for Clatsop County. Proposals should adhere to existing code requirements, integrate seamlessly with the surrounding environment, and employ aesthetically pleasing designs utilizing construction best practices suitable for coastal conditions. Furthermore, proposals should include a comprehensive landscape plan to ensure the final development is visually appealing and serves as a model for future endeavors.

Interested individuals or organizations are required to submit a written statement of interest demonstrating financial capacity, relevant experience, and the ability to meet specific development objectives, including past success in similar public/private participation projects. Proposals must address all criteria outlined in the "Proposal Contents" section concisely and comprehensively.

Evaluation of proposals will consider completeness, adherence to submission requirements, and the feasibility of proposed plans. The City reserves the right to request additional information following the initial review process.

A feasibility study was completed and is attached to this RFP with three concepts for different, multifamily, housing types that could be developed on this property. (See attached.)

Site Information:

The site is adjacent to Highway 101 on the north end of Seaside. The north boundary of the site borders a gas station and light industrial businesses while the southern boundary is shared with a separate city-owned parcel that will be developed into a new public park. The property has a narrow access to N Holladay Dr. to the west and access to Hwy 101 to the east.





Existing Conditions:

The approximate 1.85 site is currently vacant land with no existing structures. The property is located outside of the FEMA floodplain and is not located in any geologic hazard areas. The property does not have any mapped wetlands.

The location has access from Highway 101, however, a Traffic Impact Analysis may be required due to the increased number of trips of the proposed development. The existing ODOT access was obtained by a neighboring property for secondary access to the rear of their property. A change of use from ODOT may be required.

The property is zoned Industrial (M-1) and affordable housing developments are allowed within the zone pursuant to the provisions of the 2021 Senate Bill 8. The zoning does not have density standards as required in residential zones. The site would need to meet parking requirements (Seaside Zoning Ordinance Section 4.100) for the number of proposed dwelling units and be compatible with surrounding properties and uses.

A Phase 1 environmental study has been completed. Work is currently being done to complete a Phase 2 study with the final report expected in the near future. (See attached Phase 1 and the preliminary Phase 2 reports).

Utilities serve the site from N. Holladay Dr. Utilities will need to be brought from Holladay into the developable area. A sewer pump station may be necessary to connect the development to the existing sewer main.

Parking Requirements:

Section 4.100 of the Seaside Zoning Ordinance lists parking standards for apartment buildings.

- 1. More than two (2) bedrooms -2 parking spaces per dwelling unit.
- 2. Two (2) bedrooms 1.5 parking spaces per dwelling unit.
- 3. One (1) bedroom -1.25 spaces per dwelling unit.
- 4. Studio without a bedroom − 1 space per dwelling unit.

The Oregon legislature recently passed Senate Bill 1537 which will require the city to grant adjustments to local land use requirements. Applicants should take this state law into consideration in order to maximize the use and number of units available on this site.

Key Parameters:

Key parameters that must be considered in developing proposals include, but are not limited to, the following:

- 1. The proposer shall build affordable housing to be made available to rent but may choose the design, layout, number of buildings, and number of units.
- 2. Completed designs should include finished landscaping, fencing, and/or other features that provide an attractive façade for neighboring properties and the public rights of way.
- 3. Housing proposed should be compatible in value, design, and amenities with the surrounding neighborhood.
- 4. Open space within the development is not of significant concern as the neighboring property to the south is being designed as a new public park.
- 5. Proposals must comply with all applicable, federal, state, and local development regulations, codes, and ordinances.

Proposed Timeline:

The developer will propose a timeline that is agreeable to the City. The agreed-upon schedule may be modified by the party's mutual written agreement.

Proposal Content:

Please furnish a clear and succinct written response to each of the following inquiries:

- 1. Detail the sponsoring organization or company for the project, specifying the type of organization, contact persons, phone numbers, email addresses, and qualifications of key personnel.
- 2. Outline the project, its objectives, and how it addresses the City's affordable housing requirements. This should encompass fundamental housing design elements and amenity offerings.
- 3. Clarify the funding sources for the project. Are these funds secured? If so, provide documentation demonstrating their commitment. Demonstrate the financial capability to execute the project by submitting a proposed financial plan, delineating projected funding sources, including the developer's capital investment in the project.

- 4. Specify the number and type of units slated for construction, as well as the unit mix (number of bedrooms in each unit).
- 5. Present a proposed development schedule, encompassing the time required for design, commencement, and completion of construction, along with any applicable project phasing.
- 6. Furnish a schedule of estimated costs for the project, encompassing building site work, architectural fees, post-construction building site cleanup (including excavation material removal), landscaping, and all other project-related expenses.
- 7. Elaborate on how adverse impacts on existing neighborhood residents, such as noise, dust, and construction traffic, will be minimized.
- 8. Detail the process by which the developer will transfer the property to a property management company or organization for on-site property management activities.
- 9. Enumerate any specific terms and/or special conditions the proposer may stipulate for the City or city staff.

Evaluation Criteria:

Applications will be judged on a pre-determined set of criteria according to a points system. Once all applications have been scored, they will be ranked. Up to three applicants may be contacted for interviews. The evaluation criteria are as follows:

Qualifications of the project manager and project team, and proven ability to successfully complete projects of similar scope.	30 pts.
Design proposal, capacity, and compatibility with surrounding properties and uses.	20 pts.
Financial structure, funding sources, and grant experience.	15 pts.
References from past and present clients with projects of similar scope.	15 pts.
Experience in planning, design, and housing development.	10 pts.
Project understanding, approach, and process for accomplishing the City's objectives.	10 pts.

Points:



N. North Forty Property, Seaside, Oregon, Phase I Environmental Site Assessment

August 8, 2023

Prepared for: Clatsop County 800 Exchange Street, Suite 410 Astoria, OR 97103 msteele@clatsopcounty.gov

Prepared by:

Stantec Consulting Services Inc. 601 SW 2nd Avenue, Suite 1400 Portland, Oregon 97204

Project No.: 185706185

Sign-off Sheet and Signatures of Environmental Professionals

This document entitled N. North Forty Property, Seaside, Oregon, Phase I Environmental Site Assessment (Report) was prepared by Stantec Consulting Services Inc. (Stantec) for the account of Clatsop County, Oregon (Client). The conclusions in the Report are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

Stantec has assumed all information received from the Client and third parties in the preparation of the Report to be correct. While Stantec has exercised a customary level of judgment or due diligence in the use of such information, Stantec assumes no responsibility for the consequences of any error or omission contained therein.

This Report is intended solely for use by the Client in accordance with Stantec's contract with the Client. While the Report may be provided to applicable authorities having jurisdiction and others for whom the Client is responsible, Stantec does not warrant the services to any third party. The report may not be relied upon by any other party without the express written consent of Stantec, which may be withheld at Stantec's discretion.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of Title 40 of the Code of Federal Regulations, Part 312, (40 CFR 312). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Author:
Carrie Rackey Principal
Sain Hoffer
Quality Reviewer:
Jamie Hoffman, RG Senior Environmental Specialist
Independent Reviewer:
Leonard Farr Jr., RG



Principal

Project No.: 185706185

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Abbreviations

AAI All Appropriate Inquiries

AST Aboveground Storage Tank

ASTM ASTM International

AUL Activity Use Limitation

BER Business Environmental Risk

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulation

CREC Controlled Recognized Environmental Conditions

EP Environmental Professional

EPA Environmental Protection Agency

ESA Environmental Site Assessment

ft msl Feet above mean sea level

HREC Historical Recognized Environmental Conditions

LUST Leaking Underground Storage Tank

PAHs Polynuclear Aromatic Hydrocarbons

PCBs Polychlorinated Biphenyls

RCRA Resource Conservation and Recovery Act

REC Recognized Environmental Conditions

USDA United States Department of Agriculture

USGS United States Geological Survey

UST Underground Storage Tank

VEC Vapor Encroachment Condition

VOCs Volatile Organic Compounds

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Executive Summary August 8, 2023

1.0 FXFCUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Phase I Environmental Site Assessment (ESA) of the property identified by the Clatsop County Tax Assessor as Taxlots 61015BA06100 and 61015BA06500 in Seaside, Oregon (the "Subject Property"), on behalf of Clatsop County (the Client). Clatsop County (the "User") has been designated as the User of this report. The intended use of this Phase I ESA is for environmental due diligence to support redevelopment of the Subject Property.

The Phase I ESA was conducted in conformance with the requirements of ASTM International (ASTM) Designation E1527-21, and All Appropriate Inquiries (AAI) as defined by the United States Environmental Protection Agency (EPA) in Title 40 of the Code of Federal Regulations, Part 312 (40 CFR 312), except as may have been modified by the scope of work, and terms and conditions, requested by the Client. Any exceptions to, or deletions from, the ASTM or AAI practice are described in Section 2.3.

The Subject Property consists of two tax lots as summarized in the table below.

Taxlot ID	Size (acres)	Ownership	Current Use
61015BA06100	1.53	City of Seaside	Vacant with no improvements
61015BA06500	0.32	City of Seaside	Parking and driveway for residences on adjacent taxlots

The Subject Property is located in northern Seaside, Oregon. Taxlot 61015BA06100 is a grass field with no improvements or active uses. Small areas of asphalt were observed on the ground surface in the field. Taxlot 61015BA06500 is in use as a gravel/grass driveway/parking area for adjacent residences.

Sites adjoining to the west are in residential use. A recreational field is adjacent to the south/southwest. North Roosevelt Drive (US Highway 101) is present along the eastern Subject Property boundary, with commercial development (credit union, car wash, restaurant, coffee kiosk) beyond. Adjoining uses to the northwest, north, and northeast are industrial including a metal working/welding business and bulk petroleum storage/distribution.

No evidence of past or current use of the Subject Property has been identified, except for parking in the western portion of the Subject Property associated with adjacent residential sites and features (asphalt, poles) that indicate potential recreational uses. Adjoining sites to the north have been in commercial/industrial use including bulk fuel storage since at least the 1950s.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of Clatsop County Taxlots 61015BA06100 and 61015BA06500, or the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment

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Executive Summary August 8, 2023

has revealed the following recognized environmental condition (REC) in connection with the Subject Property:

Adjoining sites to the north and northeast have been used for bulk petroleum storage and fueling since at least the 1950s, including the presence of above ground storage tanks (ASTs) in close proximity to the Subject Property boundary. One north adjoining site (Wilcox & Flegel Oil Co.) is currently in use for bulk petroleum storage/distribution/fueling. No information has been identified regarding environmental assessments to evaluate whether releases have occurred associated with decades of bulk petroleum storage and distribution on the north adjoining sites. The potential for releases to have occurred at the north adjoining sites and for any such releases to have impacted the Subject Property represents a REC and a VEC.

Controlled RECs (CRECs) and/or historical RECs (HRECs) were not identified.

Additional assessment is recommended to evaluate whether petroleum releases originating on the north adjoining site may have impacted the Subject Property.

The preceding summary is intended for informational purposes only. Reading of the full body of this report is recommended.



Introduction August 8, 2023

2.0 INTRODUCTION

The objective of this Phase I ESA was to perform AAI into the past ownership and uses of the Subject Property consistent with good commercial or customary practice as outlined by ASTM International (ASTM) in "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," Designation E1527-21. AAI is the process for evaluating a property's environmental conditions for the purpose of qualifying for landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) following final rule of Part 312 of Title 40, Code of Federal Regulations (40 CFR Part 312). The purpose of this Phase I ESA was to identify, to the extent feasible, adverse environmental conditions including recognized environmental conditions ("RECs") of the Subject Property.

The ASTM E1527-21 standard indicates that the goal of the Phase I ESA is to identify RECs, as well as historical recognized environmental conditions ("HRECs") and controlled recognized environmental conditions ("CRECs") that may exist at a property. The term "recognized environmental conditions" is defined as:

- 1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment;
- 2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or
- 3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment.

ASTM defines a "HREC" as a previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority and meets current unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (e.g., activity and use limitations or other property use limitations). A HREC is not considered a REC.

ASTM defines a "CREC" as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (e.g., as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), but with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (e.g., activity and use limitations, institutional controls, or engineering controls).

As defined by ASTM, RECs can include hazardous substances or petroleum products present under conditions in compliance with laws if that presence represents a material threat of future release. The release of hazardous substances or petroleum products is, however, not a REC if that presence is a *de*

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minimis condition. De minimis conditions are minor releases that generally do not present a material risk to human health and would not likely be subject to enforcement action if brought to the attention of governmental agencies. ASTM also considers the potential for a business environmental risk (BER), defined as a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of the Subject Property, not necessarily limited to those environmental issues required to be investigated by the ASTM standard. Consideration of BERs may involve addressing one or more ASTM non-scope considerations.

The scope of work conducted during this Phase I ESA consisted of a visual reconnaissance of the Subject Property, interviews with key individuals, and review of reasonably ascertainable documents. The scope of work did <u>not</u> include an assessment for environmental regulatory compliance of any facility ever operated at the Subject Property (past or present), or sampling and analyzing of environmental media. Stantec was not contracted to perform an independent evaluation of the purchase or lease price of the Subject Property and its relationship to current fair market value. The conclusions presented in this Phase I ESA report are professional opinions based on data described herein. The opinions are subject to the limitations described in Section 2.3.

ASTM E1527-21 notes that the availability of record information varies from source to source. The User or Environmental Professional (EP) is not obligated to identify, obtain, or review every possible source that might exist with respect to a property. Instead, ASTM identifies record information that is reasonably ascertainable from standard sources. "Reasonably ascertainable" means:

- 1. Information that is publicly available;
- 2. Information that is obtainable from its source within reasonable time and cost constraints; and
- 3. Information that is practicably reviewable.

2.1 SUBJECT PROPERTY DESCRIPTION

The Subject Property consists of two tax lots as summarized in the table below.

Taxlot ID	Size (acres)	Ownership	Current Use
61015BA06100	1.53	City of Seaside	Vacant with no improvements
61015BA06500	0.32	City of Seaside	Gravel parking and driveway for residences on adjacent taxlots

The Subject Property is located in northern Seaside, Oregon. Taxlot 61015BA06100 is a grass field with no improvements or active uses. Small areas of asphalt and poles likely associated with past recreational use (soccer goal) were observed in the field. Taxlot 61015BA06500 is in use as a gravel driveway/parking area for adjacent residences.

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Sites adjoining to the west are in residential use. A recreational field is adjacent to the south/southwest. North Roosevelt Drive (US Highway 101) is present along the eastern Subject Property boundary, with commercial development (credit union, car wash, restaurant, coffee kiosk) beyond. Adjoining uses to the northwest, north, and northeast are industrial including a metal working/welding business and bulk petroleum storage/distribution facility.

A Subject Property Location Map is provided as Figure 1. A Subject Property Vicinity Map illustrating the main features of the Subject Property and vicinity is provided as Figure 2. Photographs taken during the site reconnaissance visit are provided in Appendix A.

2.2 SPECIAL TERMS, CONDITIONS, AND ADDITIONAL ASSUMPTIONS

There were no special terms, conditions, or additional assumptions associated with this Phase I ESA.

2.3 EXCEPTIONS AND LIMITING CONDITIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided and given the schedule and budget constraints established by the client. No other representations, warranties, or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential and actual liabilities and conditions associated with the Subject Property.

This report provides an evaluation of selected environmental conditions associated with the Subject Property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information received from others.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the Subject Property's environmental condition.

The Client did not provide or contract Stantec to provide recorded title records or search results for environmental liens or activity and use limitations encumbering the property or in connection with the Subject Property. Stantec did not obtain historical records that document the property history in continuous 5-year intervals. Although this represents a data gap, the data gap is not considered to impact the EPs ability to identify RECs unless stated as such. Based on the information obtained during the course of this ESA and general knowledge of development at and near the Subject Property, the absence of this information did not affect the ability of the EPs to identify RECs, HRECs, CRECs, or *de minimis* conditions.

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Introduction August 8, 2023

This report has been prepared for the exclusive use of the client identified herein and any use of or reliance on this report by any third party is prohibited, except as may be consented to in writing by Stantec or as required by law. The provision of any such consent is at Stantec's sole and unfettered discretion and will only be authorized pursuant to the conditions of Stantec's standard form reliance letter. Stantec assumes no responsibility for losses, damages, liabilities, or claims, howsoever arising, from third party use of this report.

Project Specific limiting conditions are provided in Section 2.2.

The conclusions are based on the conditions encountered at the Subject Property by Stantec at the time the work was conducted.

As the purpose of this report is to identify Subject Property conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the Subject Property is beyond the scope of this assessment.

The findings, observations, and conclusions expressed by Stantec in this report are not an opinion concerning the compliance of any past or present owner or operator of the Subject Property which is the subject of this report with any Federal, state, provincial or local law or regulation.

This report presents professional opinions and findings of a scientific and technical nature. It does not and shall not be construed to offer a legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations, or policies of Federal, state, provincial or local governmental agencies.

Stantec specifically disclaims any responsibility to update the conclusions in this report if new or different information later becomes available or if the conditions or activities on the property subsequently change.

2.4 PERSONNEL QUALIFICATIONS

This Phase I ESA was conducted by, or under the supervision of, an individual that meets the ASTM definition of an EP. The credentials of the EP and other key Stantec personnel involved in conducting this Phase I ESA are provided in Appendix B.



User-Provided Information August 8, 2023

3.0 USER-PROVIDED INFORMATION

ASTM E1527-21 describe responsibilities of the User to complete certain tasks in connection with the performance of AAI into the Subject Property. The ASTM standard requires that the EP request information from the User on the results of those tasks because that information can assist in the identification of RECs, CRECs, HRECs, or *de minimis* conditions in connection with the Subject Property. Towards that end, Stantec requested that the User provide the following documents and information. Clatsop County does not have any information regarding the use of the Subject Property; therefore, the User questionnaire was completed by Jeff Flory, representative of the City of Seaside, which owns the Subject Property.

Description of Information	Provided (Yes / No)	Description and/or Key Findings
User Questionnaire and/or Interview	Yes	Mr. Flory reported that industrial uses on adjacent sites including encroachment of stored equipment on the Subject Property may have impacted the Subject Property.
Environmental Liens or Activity and Use Limitations (AUL)	Yes	The Subject Property owner reportedly is not aware of any AULs for the Subject Property.
Previous Environmental Permits or Reports Provided by User	Yes	The Subject Property owner reportedly does not possess any of these documents.
Purpose of the Phase I ESA	Yes	The intended use of the Phase I ESA is to support redevelopment of the Subject Property.

The completed questionnaire is included in Appendix C.



Records Review August 8, 2023

4.0 RECORDS REVIEW

The objective of consulting historical sources of information is to develop the history of the Subject Property and surrounding area and evaluate if past uses may have resulted in RECs. Physical setting records are evaluated to determine if the physical setting may have contributed to adverse environmental conditions in connection with the Subject Property. During the review of historical records, Stantec attempted to identify uses of the Subject Property from the present to the first developed use of the Subject Property. Stantec's research included the reasonably ascertainable and useful records described in this section.

4.1 PHYSICAL SETTING

A summary of the physical setting of the Subject Property is provided in the table below with additional details in the following subsections.

Topography:	The Subject Property elevation is approximately 5 feet above mean sea level (amsl). The topography of the Subject Property and surrounding area is flat.
Soil/Bedrock Data:	The Environmental Data Resources (EDR) Radius Map Report lists soil at the Subject Property as Gearhart fine sandy loam, which is a somewhat excessively drained Class A soil. Geology in the Subject Property vicinity is mapped as Quaternary beach deposits consisting of fine-grained sediments (Geologic Map of Oregon, Oregon Department of Geology and Mineral Industries, https://gis.dogami.oregon.gov/maps/geologicmap/).
Estimated Depth to Groundwater/ Estimated Direction of Gradient:	Well logs from geotechnical borings drilled on the south adjoining site obtained from the Oregon Water Resources Department (OWRD) indicate that groundwater is present within six feet of the ground surface in the Subject Property vicinity. Based on the Subject Property's proximity to the ocean, tidal influences on groundwater flow direction are possible. Insufficient information is available to discern groundwater flow direction at the Subject Property.

NOTE:

Site-specific groundwater flow direction and depth can only be determined by conducting site-specific testing, which Stantec has not conducted.

4.1.1 Subject Property Topography and Surface Water Flow

The Subject Property elevation is approximately 5 feet amsl. The topography of the Subject Property and surrounding area is flat. Surface water would be anticipated to penetrate the unpaved areas of the



Records Review August 8, 2023

Subject Property. Any surface water flowing off the Subject Property would be anticipated to flow to ditches along US Highway 101 or storm sewer drains in N. Holladay Street.

4.1.2 Regional and Subject Property Geology

The EDR Radius Map Report lists soil at the Subject Property as Gearhart fine sandy loam, which is a somewhat excessively drained Class A soil. Geology in the Subject Property vicinity is mapped as Quaternary beach deposits consisting of fine-grained sediments (Geologic Map of Oregon, Oregon Department of Geology and Mineral Industries, https://gis.dogami.oregon.gov/maps/geologicmap/).

4.1.3 Regional and Subject Property Hydrogeology

Well logs from geotechnical borings drilled on the south adjoining site obtained from the OWRD indicate that groundwater is present within six feet of the ground surface in the Subject Property vicinity. Based on the Subject Property's proximity to the ocean, tidal influences on groundwater flow direction are possible. Insufficient information is available to discern groundwater flow direction at the Subject Property.

4.2 FEDERAL, STATE AND TRIBAL ENVIRONMENTAL RECORDS

A regulatory agency database search report was obtained from EDR, a third-party environmental database search firm. A complete copy of the database search report, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

Stantec evaluated the information listed within the database relative to potential impact to the Subject Property, assessing the potential for impacts based in part on the physical setting. Observations about the Subject Property and adjoining properties made during the Subject Property reconnaissance are provided in more detail in Section 5.

4.2.1 Listings for Subject Property

The Subject Property was not identified in the environmental database report.

4.2.2 Listings for Adjoining and Nearby Sites with Potential to Impact Subject Property

Stantec assessed data presented in the environmental agency database search report to evaluate the potential for conditions on adjoining and nearby sites to pose a REC, CREC, or HREC for the Subject Property. The evaluation included an opinion of the potential for contamination by hazardous substances or petroleum products to migrate to the Subject Property from an adjoining or nearby site, including by vapor migration or encroachment (i.e., potential for a vapor encroachment condition [VEC]. ASTM E2600-22 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions

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Records Review August 8, 2023

(ASTM, 2022) was used as the basis for a Tier I Vapor Encroachment Screen (VES) for the Subject Property. This included evaluation of release sites within 1/10 mile for Petroleum Hydrocarbon releases, and 1/3 mile for volatile and semi-volatile organic compounds (VOCs, SVOCs), plus other potential vapor phase contaminants (such as mercury).

Based on this evaluation, the following individual facilities were identified as the most likely potential sources of impact to the Subject Property. The basis for why each of the following listed databases does or does not represent a REC for the Subject Property is also provided.

Listed Facility Name/Address	Database Listing(s)	Distance/Direction from Subject Property
Frank Hank & Leo Incorporated/Fuel Dealers	EDR Historical Auto Stations	Adjoining north
2375 N. Holladay Drive		
Seaside, OR 97138		

EDR identified the north adjoining site (present day western area of Sopko Welding) as a historical auto station in at least 1982 and 1983. No records were identified on the DEQ databases regarding the installation/removal of fuel storage tanks or documented petroleum releases. Based on the proximity of this site to the Subject Property, the potential for a release of historical storage and distribution of fuel at this site to have impacted the Subject Property is a REC and a VEC.

Sopko Welding	Resource Conservation and	Adjoining North
Sopko Welding	Nesource Conservation and	Aujoining North
841 24 th Avenue	Recovery Act (RCRA) – not a	
0 11 00 07400	generator / no longer regulated	
Seaside, OR 97138	(NonGen)	

The listing is associated with the eastern area of present-day Sopko Welding. Listing of this site on the RCRA database does not indicate that a release has been identified. No release has been documented at this facility; therefore, RECs were not identified for the Subject Property in connection with this listing.

Thomas J. Carmichael Inc./ Wilcox & Flegal Seaside Plant	RCRA NonGen, AST, AIRS, HSIS, NPDES, UIC	Adjoining Northeast
941 24 th Avenue		
Seaside, OR 97138		

Each of the listings for this facility is associated with bulk fuel storage and distribution operations. Records indicate that aboveground storage tanks (ASTs) containing biodiesel and gasoline have been registered with DEQ at this facility since 2017. Historical aerial photographs indicate that ASTs have been present at this facility since at least the 1950s (Section 4.3.2).

Oregon Fire Marshal Hazardous Substance Information System (HSIS) records indicate that reportable quantities of antifreeze, biodiesel 5%, unleaded gasoline, and lube oil are stored at this facility.

Stantec contacted DEQ about the Underground Injection Control (UIC) listing. DEQ stated that there is no UIC permit for this facility.

The regulatory database listings for this facility do not include documentation of a release; however, there is a high potential for a release to have occurred based on the long-term storage and distribution

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Listed Facility Name/Address	Database Listing(s)	Distance/Direction from Subject Property	
of fuel at this facility, and for that release to have impacted the Subject Property. This potential represents a REC and a VEC for the Subject Property.			
Ray Lynch Service	DEQ Leaking UST (04-99-0757) and registered UST	350 feet south-southwest	
2080 N. Roosevelt Seaside, OR 97138	and registered 001		

The DEQ file for this former gas station states that three USTs were decommissioned in 1999. In 2004 the Oregon Department of Transportation identified petroleum contamination along the site's eastern boundary in the N. Roosevelt Street (US Highway 101) right-of-way. DEQ conducted soil and groundwater sampling on the former gas station. Based on the petroleum concentrations detected in soil and groundwater, DEQ concluded that the residual impacts do not present an unacceptable risk to human health or the environment and issued a No Further Action letter in December 2009. Based on this site's distance from the Subject Property and information in the DEQ file, this release does not represent a REC for the Subject Property.

Admin School Dist #10 Bus	DEQ registered UST	575 feet south
Garage		
1985 N. Roosevelt		

This registered UST record is associated with a site located 575 feet south of the Subject Property. No record of a documented release from the UST has been identified. Based on the lack of a documented release and this site's distance from the Subject Property, RECs were not identified for the Subject Property in connection with this UST.

The EDR report includes a notation for a former gas station (Seaside BP/Maritime Fuel) adjoining the northwestern Subject Property boundary; however, the address is provided as 2323 S. Holladay (rather than N. Holladay). Cross referencing with the DEQ databases confirms that this historical gas station record is associated with a site on S. Holladay Drive approximately two miles south of the Subject Property. Based on this facility's distance from the Subject Property, RECs for the Subject Property were not identified in connection with this facility.

Based on distance, gradient relative to the Subject Property, and/or regulatory status, the remaining listings in the database search report, including listings of Orphan Sites, provided in Appendix D do not constitute a potential REC for the Subject Property.

4.3 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

Stantec checked the following sources to obtain information pertaining to Subject Property use and/or indications of RECs in connection with the Subject Property:

4.4

Project No.: 185706185



Records Review August 8, 2023

4.3.1 Fire Department

Agency Name, Contact Information, Date	Finding
Oregon State Fire Marshal	No hazardous materials response incidents were identified for
Online searchable databases	the Subject Property or adjoining sites.
Searched 7/17/23	

4.3.2 Clatsop County Records

Agency Name, Contact Information, Date	Findings
Clatsop County Tax Assessor Online database searched 7/17/23	The Clatsop County Tax Assessor record states that the Subject Property is owned by the City of Seaside and is a total of 1.85 acres in size. The Subject Property is currently zoned as M1 Industrial.

4.3.3 Seaside Building Department Records

Agency Name, Contact Information, Date	Findings
City of Seaside Building Department https://www.cityofseaside.us/building-department	The City of Seaside Building Department refers users to the online electronic permitting system for the State of Oregon.
Oregon ePermitting https://aca- oregon.accela.com/oregon/Default.aspx Date searched: 8/4/23	Stantec attempted to search the ePermitting database for the Subject Property; however, the ePermitting database is searchable by address. As no address has been assigned to the Subject Property, permits were not identified for the Subject Property. Based on aerial photographs, the Subject Property appears to have been historically absent of structures.

4.4 HISTORICAL RECORDS REVIEW

4.4.1 Land Title Records/Deeds

Land title records, deeds, environmental liens, and activity and use limitation documentation was not provided by the User, and public records were not searched by Stantec.



Records Review August 8, 2023

4.4.2 Aerial Photographs

Stantec reviewed historical aerial photographs provided by EDR. The general type of activity on a property and land use changes can often be discerned from the type and layout of structures visible in the photographs. However, specific elements of a facility's operation usually cannot be discerned from aerial photographs alone. The following table summarizes Stantec's observations of the reviewed historical aerial photographs. Copies of the historical aerial photographs are provided in Appendix E.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1953	1" = 500'	No improvements are visible on the Subject Property. Sites adjoining to the west, south, and east appear to be undeveloped. Sites to the north appear to be in commercial/industrial use with buildings and features that may be ASTs adjacent to the northern Subject Property boundary.
1975	1" = 500'	The resolution of this photograph is poor. No significant changes from the 1953 photograph are apparent except for development to the west which appears to be residential.
1981, 1983	1" = 500', 1" = 750' (scale appears to be printed incorrectly on the photograph)	No significant changes are apparent on the Subject Property. Six ASTs are visible on the adjoining site to the northeast. A canopy is also visible on the northeast adjoining site, indicating a likely fueling area. Multiple ASTs are visible on adjoining sites to the north, near the northern Subject Property boundary. Additional residential development is visible to the west.
1994	1" = 500'	No significant changes are apparent on the Subject Property except for encroachment of stored items likely associated with the northeastern sites visible on the Subject Property. A new larger building has been constructed on the north adjacent site. A residence has been constructed on the southwest adjoining site.
2000	1" = 500'	No significant changes are apparent.
2005	1" = 500'	No significant changes are apparent on the Subject Property. An additional small structure, potentially another fueling canopy, is visible on the northeastern adjoining site.
2009	1" = 500'	No significant changes are apparent.
2012	1" = 500'	No significant changes are apparent except that the western area of the Subject Property is in use for parking and the additional small canopy visible in the previous photograph has been removed leaving a scar in the pavement.
2016	1" = 500'	No significant changes are apparent except that stored materials are visible in the northern area of the Subject Property.
2020	1" = 500'	No significant changes are apparent.

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Records Review August 8, 2023

Photographs were also provided for 1956, 1969, 1977, and 1990; however, the resolution of these photographs was not sufficient to discern features of the Subject Property and adjoining sites.

Source: EDR Aerial Photo Decade Package

Based on the length of operations and evidence of encroachment of materials and storage from the north adjoining site on the Subject Property, there is a high potential for undocumented releases to have occurred based on the long-term storage and distribution of fuel on the north adjacent and northeast adjacent sites, and for those potential releases to have impacted the Subject Property. This potential represents a REC and a potential VEC for the Subject Property.

4.4.3 City Directories

Stantec retained a third party to research available city directories for adjoining sites, in approximately five-year intervals from 1968 to 2020. No directory listings are available for the Subject Property or the south adjoining site as they do not have numerical addresses. The directories were reviewed for addresses that would be inferred to apply to the Subject Property and south adjoining site based on surrounding addresses. No directory listings were identified for these inferred addresses.

Copies of the city directory listings are provided in Appendix E.

The following is a summary of Stantec's review of the city directory listings:

Subject/Adjoining Properties	Year	Listed Occupants
941 24 th Avenue	1968, 1972, 1976	Standard Oil Co. of California
	1981	Not listed
	1986	Seaside Service Oil Co
Northeast adjoining	1992, 1995, 2000	Not listed
(Present-day Wilcox & Flegel Oil)	2005	Wilcox & Flegel
	2010, 2014, 2017	Not listed
	2020	Wilcox & Flegel Oil Co.
841 24 th Avenue	1968	Seaside Oil Co. Fuel & Heating Oil
	1972	Seaside Oil Co. and Shell Oil Co.
	1976	Shell Oil Co (Plant)
North adjoining	1981	Not listed
(Present-day eastern portion of Sopko Welding site)	1986	Sopko Welding mach shop
	1992	Not listed
	1995	Sopko Balloons & More, Sopko Welding
	2000	Occupant unknown, Sopko Welding

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Records Review August 8, 2023

Subject/Adjoining Properties	Year	Listed Occupants
	2005	Sopko Welding
	2010	North Coast Crane Svc, Sopko Welding
	2014, 2017	Not listed
	2020	Joe Sopko, Sherry Sopko
	1968, 1972	Mobil Oil Co, Service Oil Co.
	1976	Mobil Oil Co (Plant), Service Oil Co (Plant)
	1981, 1986	Service Oil Co (Plant)
2375 N. Holladay Drive	1992	Not listed
North adjoining (Present-day western portion of	1995	Seaside Service Oil Co.
Sopko Welding site)	2000, 2005, 2010	Not listed
	2014	Sopko Welding
	2017	Not listed
	2020	Sopko Welding
2333 & 2335 N. Holladay Drive West adjoining (Present-day residential)	1968 – 2020	Residential
	1968	Not listed
	1972	Seaside Street Department Shop
	1976	Vacant
2339 N. Holladay Drive	1981, 1986, 1992, 1995	Not listed
Northwest adjoining	2000	Pacific Public Safety & Communications
(Present-day plumbing business)	2005	Not listed
	2010	Savage, Martin M.
	2014	Linda's Rag & Bone; Savage, Dexter
	2017	Iles, Peter A; Linda's Rag & Bone
	2020	Martin, Denise
2297 N. Roosevelt Drive	1968-2010	Not listed
East adjoining	2014, 2017, 2020	Seaside Car & Boat Wash
(Present-day car wash)		



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Source: EDR-City Directory Image Report

The potential for releases to have occurred during long-term use of adjoining sites as petroleum storage and distribution facilities and for any such releases to have impacted the Subject Property represents a REC and a potential VEC.

4.4.4 Historical Fire Insurance Maps

Fire insurance maps were developed for use by insurance companies to depict facilities, properties, and their uses for many locations throughout the United States. These maps provide information on the history of prior land use and are useful in assessing whether there may be potential environmental contamination on or near the Subject Property. These maps, which have been periodically updated since the late 19th century, often provide valuable insight into historical Subject Property and adjoining and nearby property uses.

Stantec requested fire insurance maps from EDR; however, no coverage exists for the Subject Property. The Sanborn® Map Search Report indicating "no coverage" is presented in Appendix E.

4.4.5 Historical Topographic Maps

Stantec reviewed historical USGS 7.5-minute Topographic Maps of the Gearhart Oregon Quadrangle (scale 1:24,000) to help identify past Subject Property and adjoining and nearby property usage and areas of potential environmental concern. Copies of the historical maps are provided in Appendix E.

The following table summarizes the maps reviewed and our observations.

Year	Scale	Observations of Subject Property and Adjoining/Nearby Properties
1937	1:24,000	No development is depicted on the Subject Property. N. Holladay Drive and US Highway 101 are depicted. No development is depicted on adjoining sites.
1939	1:24,000	No development is depicted on the Subject Property. Residential development is depicted to the west across N. Holladay Street.
1949, 1973	1:24,000	No development is depicted on the Subject Property. Buildings are depicted on the north and southwest adjoining sites.
2014, 2017	1:24,000	These maps do not provide development details other than roads.

Source: EDR Historical Topo Map Report

No RECs were noted during the review of the topographic maps.

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Records Review August 8, 2023

4.4.6 Other Historical Sources

No other historical sources were researched.



Site Reconnaissance August 8, 2023

5.0 SITE RECONNAISSANCE

A visit to the Subject Property and its vicinity was conducted by Carrie Rackey of Stantec on July 30, 2023. Stantec was unaccompanied during the Subject Property visit. Photographs collected during the site reconnaissance are included in Appendix A.

5.1 SITE RECONNAISSANCE METHODOLOGY

The site reconnaissance focused on observation of current conditions and observable indications of past uses and conditions of the Subject Property that may indicate the presence of RECs. The reconnaissance of the Property was conducted on foot and Stantec utilized the following methodology to observe the Property:

- Traverse the outer Subject Property boundary
- Traverse transects across the Subject Property

Weather conditions during the visit to the Subject Property were clear and sunny. There were no weatherrelated Subject Property access restrictions encountered during the reconnaissance visit.

5.2 GENERAL DESCRIPTION

Subject Property and Area Description:	The Subject Property is located in northern Seaside, Oregon in an area of mixed industrial, residential, and commercial uses.
Subject Property Operations:	Taxlot 61015BA06100 is a grass field with no active uses. Taxlot 61015BA06500 is in use as a gravel/grass driveway/parking area for adjacent residences.
Structures, Roads, Other Improvements:	No structures or roads are present on the Subject Property. The western area of the Subject Property (Taxlot 61015BA06500) has been cleared and is in use as a gravel/grass driveway/parking area for adjacent residences.
Subject Property Size (acres):	1.85
Estimated % of Subject Property Covered by Buildings and/or Pavement:	0%
Observed Current Subject Property Use/Operations:	None other than parking on Taxlot 61015BA06500 used by adjoining residences.
Observed Evidence of Past Subject Property Use(s):	None observed.

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Site Reconnaissance August 8, 2023

Sewage Disposal Method (and age):	The Subject Property is unimproved and there is currently no sewer connection or indication of potential past sewage disposal method.
Potable Water Source:	The Subject Property is unimproved and there is currently no potable connection or indication of potential past potable water source.
Electric and Natural Gas Utilities:	The Subject Property is unimproved and there is currently electrical or natural gas service or indication of potential past utility connections.

5.3 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS

The following table summarizes Stantec's observations during the Subject Property reconnaissance.

Observations	Description/Location
Hazardous Substances and Petroleum Products as Defined by CERCLA 42 U.S.C. § 9601(14) with identified uses:	None observed.
Drums/Totes/Intermediate Bulk Containers (≥ 5 gallons):	None observed.
Strong, Pungent, or Noxious Odors:	None observed.
Pools of Liquid:	None observed.
Unidentified Substance Containers:	None observed.
Polychlorinated biphenyl (PCB)- Containing Equipment:	None observed.
Other Observed Evidence of Hazardous Substances or Petroleum Products:	None observed. A pad-mounted transformer was observed on Taxlot 61015BA06500. No label indicating PCB content was observed. No leaks or staining was observed around the transformer.

5.4 INTERIOR OBSERVATIONS

No buildings or structures are present on the Subject Property.

5.5 EXTERIOR OBSERVATIONS

Stantec made the following observations during the site reconnaissance of exterior areas of the Subject Property and/or identified the following information during the interview or records review portions of the assessment:



Site Reconnaissance August 8, 2023

Observations	Description
On-site Pits, Ponds, or Lagoons:	None observed.
Stained Soil or Pavement:	None observed.
Stressed Vegetation:	None observed.
Waste Streams and Waste Collection Areas:	None observed.
Solid Waste Disposal:	None observed.
Potential Areas of Fill Placement:	Mounds/berms were observed in the northern area of the Subject Property. It is presumed that these mounds/berms were created during the construction of nearby athletic fields and that soils comprising the mounds/berms were sourced from the Subject Property and/or the adjoining site to the south.
Wastewater:	None observed.
Stormwater:	None observed on the Subject Property. Storm sewer catch basins are present offsite in N. Holladay Drive.
Wells:	None observed.
Septic Systems:	None observed.
Other Exterior Observations:	Patches of asphalt and metal poles were observed on the Subject Property. Based on historical information sources and the south adjoining recreational field, these features may indicate past recreational uses (soccer field, etc.).

5.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.
Other Underground Structures:	None observed.

5.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), which would indicate the presence of ASTs, was discovered during the site reconnaissance.
Former ASTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface stains), reports, or other evidence of the former presence of ASTs was discovered during this Phase I ESA.



Site Reconnaissance August 8, 2023

5.8 ADJOINING PROPERTIES

5.8.1 Current Uses of Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about use and activities on adjoining sites:

NORTH	Bulk fuel storage/distribution; Shopko Welding; Plumbing business	
EAST	N. Roosevelt Drive with bank, and car wash beyond	
SOUTH	Recreational field associated with closed school	
WEST	Residential	

5.8.2 Observed Evidence of Past Uses of Adjoining Properties

Observations of adjoining sites providing indications of past use and activities, if any, are described below.

NORTH	None observed.
EAST	None observed.
SOUTH	None observed.
WEST	None observed.

5.8.3 Pits, Ponds, or Lagoons on Adjoining Properties

As viewed from the Subject Property and/or from public rights-of-way, Stantec made the following observations about the presence of pits, ponds, and lagoons on adjoining sites:

NORTH	None observed.
EAST	None observed.
SOUTH	None observed.
WEST	None observed.

5.9 OBSERVED PHYSICAL SETTING

Topography of the Subject Property and Surrounding Area:	The Subject Property and vicinity are predominantly flat.
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Interviews August 8, 2023

6.0 INTERVIEWS

Stantec conducted interviews with the following individuals:

Name, Contact Information, and Date of Interview	Relationship to Subject Property	Key findings:
Jeff Flory, Community Development Director City of Seaside 503-738-7100 jflory@cityofseaside.us June 22, 2023	Subject Property owner representative	Mr. Flory is not aware of any historical or current active uses of the Subject Property or releases on the Subject Property. He is aware of the bulk petroleum storage/distribution operations on the north adjoining sites, and a former gas station located approximately 350 feet south of the Subject Property.
Diana Adams Oregon DEQ Diana.adams@deq.oregon.gov July 25, 2023	DEQ contact for regulatory records	Stantec contacted DEQ about the Underground Injection Control (UIC) listing for an adjoining facility. DEQ stated that there is no UIC permit for this facility.



Evaluation August 8, 2023

7.0 EVALUATION

This section provides a summary overview of or Findings, Opinions, and Conclusions.

7.1 FINDINGS AND OPINIONS

Information gathered from interviews, reviews of existing data, and an inspection was evaluated to determine if RECs are present in connection with the Subject Property. Based on this information, Stantec made the following findings and developed the following opinions.

 Based on the site reconnaissance and a review of historical aerial photographs and city directories, no evidence of historical or current active uses of the Subject Property other for parking in the western area has been identified.

No RECs were identified based on historical uses of the Subject Property.

 Adjoining sites to the north have been used for bulk petroleum storage and fueling since at least the 1950s. One north adjoining site (Wilcox & Flegel Oil Co.) is currently in use for bulk petroleum storage/distribution/fueling.

The potential for releases to have occurred during long-term use of adjoining sites as petroleum storage and distribution facilities and for any such releases to have impacted the Subject Property represents a REC and a VEC.

7.2 DATA GAPS

The federal AAI final rule [40 CFR 312.10(a)] and ASTM E1527-21 identify a "data gap" as the lack or inability to obtain information required by the standards and practices of the rule despite good faith efforts by the EP or the User.

Any data gaps resulting from the Phase I ESA described in this report are listed and discussed below.

Gap	Discussion
Deletions or Exceptions from Scope of Work Referenced in Section 1.4:	None
Weather-Related Restrictions to Site Reconnaissance:	None
Facility Access Restrictions to Site Reconnaissance:	None



N. NORTH FORTY PROPERTY, SEASIDE, OREGON, PHASE I ENVIRONMENTAL SITE ASSESSMENT

Evaluation August 8, 2023

Gap	Discussion
Other Site Reconnaissance Restrictions:	None
Data Gaps from Environmental Records Review:	None
Data Gaps from Historical Records Review:	Historical records were not available in continuous five-year intervals. This did not impact the EP's ability to evaluate RECs; therefore, this is not considered a significant data gap.
Data Gaps from Interviews:	None
Other Data Gaps:	None

7.3 CONCLUSIONS

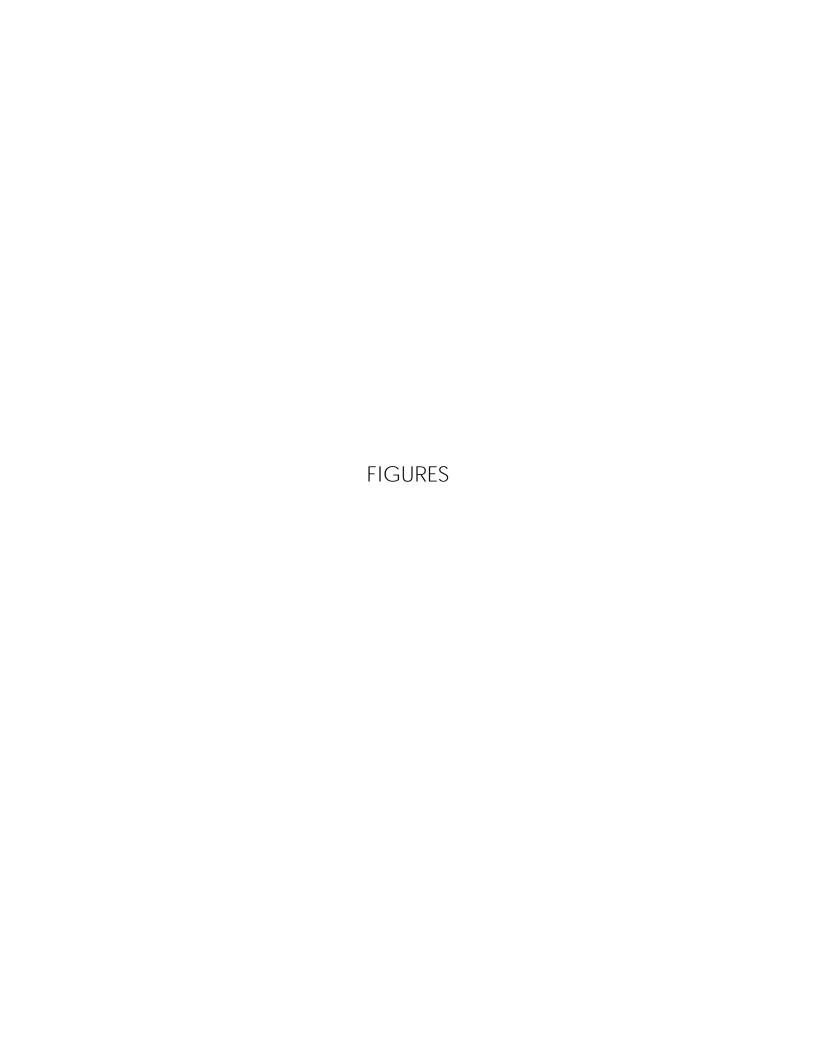
We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 of the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 2.3 of this report. This assessment has revealed the following evidence of RECs in connection with the Subject Property:

Adjoining sites to the north have been used for bulk petroleum storage and fueling since at least the 1950s, including the presence of ASTs in close proximity to the Subject Property boundary. One north adjoining site (Wilcox & Flegel Oil Co.) is currently in use for bulk petroleum storage/distribution/fueling. No information has been identified regarding environmental assessments to evaluate whether releases have occurred associated with decades of bulk petroleum storage and distribution on the north adjoining sites. The potential for releases to have occurred at the north adjoining sites and for any such releases to have impacted the Subject Property represents a REC and a VEC.

Additional assessment is recommended to evaluate whether petroleum releases originating on the north adjoining site may have impacted the Subject Property.

Project No.: 185706185 7.2







Approximate Property Boundary

2,000 Feet

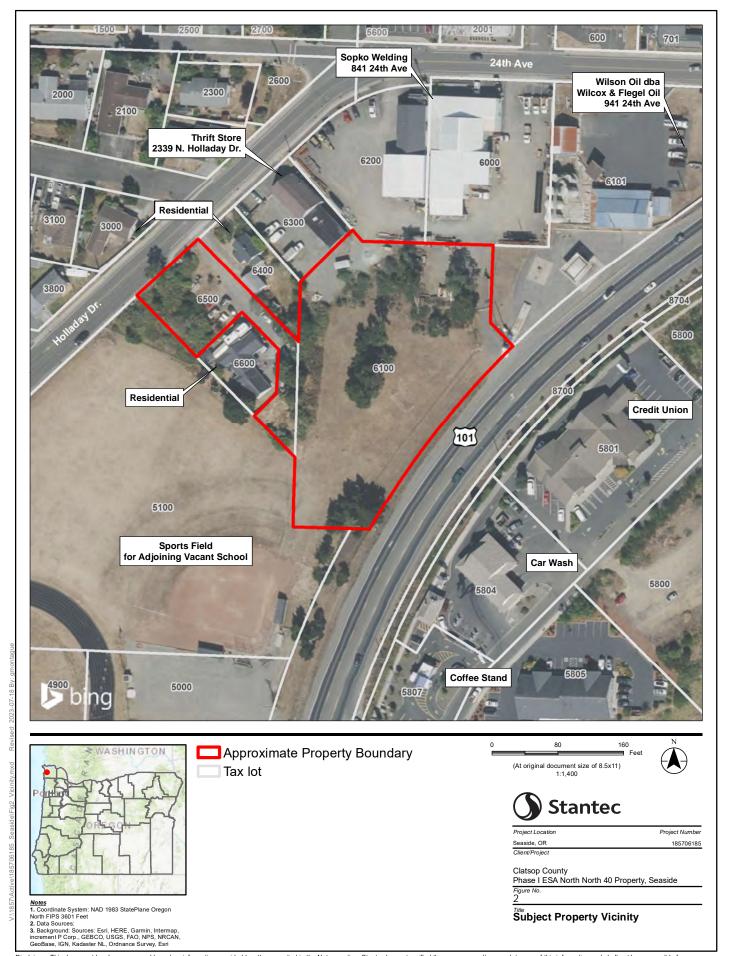
(At original document size of 8.5x11) 1:24,000



Project Number Seaside, OR

Clatsop County Phase I ESA North North 40 Property, Seaside

Subject Property Location



Appendix A	PHOTOGRAPHS	OF THE SUBJECT VICINITY	PROPERTY AND

Client: Clatsop County Job Number: 185706185 Subject Name: Phase I Environmental Site Assessment Location: North North 40 Site, Seaside Photographer: Carrie Rackey Date: 7/30/2023



View from center of Subject Property (taxlot 61015BA06100) facing north Photograph No. 2



View from center of Subject Property (taxlot 61015BA06100) facing south



Client:	Clatsop County	Job Number:	185706185
Subject Name:	Phase I Environmental Site	Location:	North North 40 Site, Seaside
	Assessment		North North 40 Site, Seaside
Photographer:	Carrie Rackey	Date:	7/30/2023



Asphalt in central area of Subject Property (taxlot 61015BA06100)

Photograph No. 4



Asphalt in central area of Subject Property (taxlot 61015BA06100)



Client:	Clatsop County	Job Number:	185706185
Subject Name:	Phase I Environmental Site Assessment	Location:	North North 40 Site, Seaside
Photographer:	Carrie Rackey	Date:	7/30/2023



Northern Subject Property boundary and adjoining bulk fuel storage/distribution facility
Photograph No. 6



Adjoining bulk fuel storage/distribution facility



Client: Clatsop County Job Number: 185706185

Subject Name: Phase I Environmental Site Location: North North 40 Site, Seaside

Photographer:

Assessment Date: 7/30/2023

Photograph No. 7



Stored items on/near northeastern Subject Property boundary



Stored items near northwestern Subject Property boundary



Client:	Clatsop County	Job Number:	185706185
Subject Name:	Phase I Environmental Site Assessment	Location:	North North 40 Site, Seaside
Photographer:	Carrie Rackey	Date:	7/30/2023



Tax lot 61015BA06500 facing southeast Photograph No. 10



N. Holladay Drive along western Subject Property boundary



Carrie Rackey CHMM Associate/Project Manager



Carrie Rackey has 18 years of experience in the environmental field, in both regulatory and consulting roles. Ms. Rackey has developed a career focus on brownfield redevelopment and environmental due diligence. She has a comprehensive background as an environmental professional, including grant writing and implementation, Phase I and II Environmental Site Assessment, remediation system management, risk assessment, and environmental compliance.

Carrie has helped numerous Oregon communities successfully compete for US Environmental Protection Agency Brownfield Grants to help communities identify, prioritize, and assess environmental risks at abandoned and underused sites. Ms. Rackey guides communities through implementation of brownfield grant projects, keeping the ultimate goals of sustainability, community benefit, and economic growth in mind.

Carrie has an extensive foundation of environmental due diligence projects, conducting Phase I and II Environmental Site Assessments for public and private clients in two countries and seven states. She is adept at fulfilling the requirements for All Appropriate Inquiry and conducting assessments in compliance with ASTM 1527-21.

EDUCATION

BA, International Affairs, Florida State University, 1996

Graduate coursework in environmental policy, chemistry, and hydrogeology, University of Wisconsin, 1998-2000

40-Hour Health & Safety Certification (29 CFR 1910.120), North Carolina State University, 2006

REGISTRATIONS

Certified Hazardous Materials Manager, #14666

Jamie Hoffman R.G., P.G.

Senior Environmental Specialist 14 years of experience · Portland, Oregon

Ms. Hoffman is a Senior Environmental Specialist in the Portland, OR office. She primarily works with the Brownfields group and conducts Phase I Environmental Site Assessments (ESAs) and subsurface investigations. Ms. Hoffman has been working in the environmental industry for over fourteen years. Her environmental experience includes commercial and industrial property acquisitions, commercial and multi-family residential redevelopments, petroleum releases, site investigation, and a variety of remediation projects on petroleum, chlorinated solvent, landfill, and manufactured gas plant facilities. She is licensed geologist in Oregon and Minnesota and a qualified Environmental Professional (EP) as defined in ASTM E 1527-21.

EDUCATION

Bachelor of Arts, Geology, University of Akron, Akron, Ohio, USA, 2006

Masters Degree, Geology, University of Michigan, Ann Arbor, Michigan, USA, 2011

CERTIFICATIONS & TRAINING

OSHA 40-hr HAZWOPER, University of Akron, Akron, Ohio, USA, 2006

OSHA 8-hr HAZWOPER Refresher Training, Terracon, Portland, Oregon, USA, 2022

Asbestos Building Inspector, Lake States Environmental, White Bear Lake, Minnesota, USA, 2014

Asbestos Building Inspector Refresher, Argus Pacific, Mountlake Terrace, Washington, USA, 2022

REGISTRATIONS

Professional Geologist #52660, Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design, 2015-Present

Registered Geologist#G2483, Oregon State Board of Examiners for Engineering & Land Surveying, 2015-Present

PROJECT EXPERIENCE

ENVIRONMENTAL ASSESSMENT

Umpqua Bank Phase I ESAs * | Oregon, United States | Project Manager

Ms. Hoffman served as the EP and project manager for approximately 80 Phase I ESAs and Phase II Limited Site Investigations for Umpqua Bank for proposed real estate transactions and loans at properties located throughout Oregon and southern Washington while working for Terracon. Project sites include gas stations, commercial retail facilities, trucking facilities, multi-tenant office buildings, multi-family residences, a golf course, and other various commercial/industrial properties.

Former Georgia Pacific* | Wilsonville Concrete Products | Fairview, Oregon, United States | Project Manager

Ms. Hoffman was the Project Manager for a Phase I ESA and Limited Site Investigation on a property formerly operated by Georgia Pacific as a wood chip storage and barge loading facility on the Columbia River in Fairview, OR. The project was performed in support of a property transaction that included a short due diligence window and multi-party oversight. Ms. Hoffman played a key role in successfully implementing an investigation to assess fill material and historical equipment fueling operations identified during the Phase I ESA, all of which was performed on an expedited schedule to meet the client's short due diligence window. Ms. Hoffman served as the primary contact, coordinating access, schedule, and reporting, with both the owner and buyer representatives throughout the project.

Confidential Portfolio* | Confidential | United States | Project Manager

Ms. Hoffman served as the project manager for a multisite portfolio across the western US involving the acquisition of a modular construction building distributor. Her duties included acting as the single point of contact for the client and the individual Terracon offices responsible for performing the work. She coordinated the site reconnaissance across multiple offices, conducted senior review on all reports prior to delivery, and provided regular client up dates throughout the project. Ms. Hoffman was able to coordinate a quick turnaround on the ESA portion of the portfolio, allowing time for the sites that required Phase II investigation to be adequately assessed prior to the client's due diligence deadline.

Confidential Portfolio* | Confidential | California, United States | Project Manager

Ms. Hoffman served as EP and project manager for Phase I ESAs for five sites in the Central Valley of California as part of a proposed confidential property acquisition. The portfolio consisted of asphalt plants, a gravel mine, a rock quarry, an equipment yard, and office buildings. This project required a rapid turnaround and coordination with multiple offices with a complex variety of site operations.

Confidential Portfolio* | Confidential | United States | Primary Scientist/Project Assistant

Ms. Hoffman served as primary scientist for multiple sites in the Minneapolis/St. Paul metropolitan area as part of a multi-office portfolio of 256 properties across the country. The portfolio was performed for due diligence in a potential acquisition that required a rapid turnaround. She assisted as a project assistant in compiling findings from the entire project to deliver to the client and in coordinating 42 Phase II ESAs which were performed as follow-up work for the Phase I portfolio.

CONTAMINATED SITE REDEVELOPMENT

ART Tower* | Wood Partners | Portland, Oregon, United States | Project Manager

Ms. Hoffman was the Project Manager for the ESA and additional environmental support during the mass excavation conducted during construction of a mixed-use development while at Terracon. Petroleum- and lead-impacted soil was encountered during the project. Ms. Hoffman coordinated periodic onsite construction/remedial oversight and waste disposal support as excavation activities proceeded. She also worked with Wood Partners to obtain a No Further Action (NFA) determination for the site from the Oregon Department of Environmental Quality (DEQ).

959 Franklin Apartments* | DinCal 4, LLC | Eugene, Oregon, United States | Project Manager

Ms. Hoffman was the Project Manager for a Phase I ESA and subsequent Limited Site Investigation for a student housing redevelopment project that was proposed on a site that was formerly occupied by an auto service facility. Ms. Hoffman assisted DinCal 4, LLC with development of a Contaminated Media Management Plan and on-call soil sampling services during the mass excavation. The release received an NFA determination from the DEQ and opened as off-campus housing in Fall 2019.

Broadway Former MGP Facility* | DTE | Ann Arbor, Michigan, United States | Primary Technician

Ms. Hoffman was the primary technician for multiple subsurface investigations relating to remediation and redevelopment of a former MGP site located along the Huron River. Multiple methods of remediation were used to tackle different types of contamination on a 14-acre former manufactured gas plant, including excavation of contaminated soils and installation of a product-trapping cap to prevent contamination from reaching the Huron River, which supplies drinking water to the city of Ann Arbor. The shoreline was restored, trees removed during construction were replaced, and the property is currently being redeveloped into park and retail space.

Days Inn University* | United Properties | Minneapolis, Minnesota, United States | Project Scientist

Ms. Hoffman served as the project scientist and primary technician for subsurface investigations and remediation activities relating to redevelopment of a solvent release site in a historical manufacturing area near downtown Minneapolis. She oversaw operation and maintenance of the soil vapor extraction system onsite and coordinated work to further remediate the site using in-situ chemical oxidation technology.

Leonard Farr Jr. RGJG





Leonard is a Principal Geologist and Brownfield Specialist with 30 years of environmental consulting experience. Leonard regularly assists clients with complex regulatory issues, with emphasis in the areas of brownfield redevelopment, environmental due diligence, remedial investigation/feasibility study (RI/FS), and cleanups of contaminated land. Leonard has managed more than 500 brownfield/due diligence projects for a variety of local government and commercial clients. He has assisted clients in obtaining funding for and implementing the redevelopment of hundreds of brownfield properties. Leonard has managed numerous complex RI/FS projects within state and federal regulatory programs. These projects have involved the collection of thousands of samples, the assessment of risk associated with contaminants detected in the samples, the analysis of remedial alternatives to mitigate contaminants detected at concentrations exceeding acceptable risk levels, and the implementation of a broad range of cleanup activities.

EDUCATION

MS, Geology, Portland State University, Portland, Oregon, 1989 BS, Geology, Portland State University, Portland, Oregon, 1987

REGISTRATIONS

Registered Geologist #1169, State of Oregon Licensed Geologist #1849, State of Washington

SELECT PROJECT EXPERIENCE

Prosper Portland | Environmental Services On-Call Contract | Portland, Oregon | Program Manager Leonard has been managing environmental services on-call contracts for the Prosper Portland (formerly the Portland Development Commission) for nearly 20 years. Some of his most notable projects have included: 1) The Yards at Union Station, a 2001 Phoenix Award winning project for excellence in brownfield redevelopment; 2) South Waterfront Redevelopment Area, a 2004 Phoenix Award winning project for excellence in brownfield redevelopment; 3) Station Place, as Oregon Brownfield Awards winner in 2012, 4) Fields Park, an Oregon Brownfield Awards winner in 2016, and 5) environmental due diligence and prospective purchaser agreement assistance for the USPS Portland P&DC property recently acquired for \$88M by Prosper.

Rogue Valley COG | Brownfield Program Management | Medford, Oregon | Program Manager

Leonard assisted the Rogue Valley COG in preparing a successful \$600,000 EPA brownfield grant in fiscal year 2017 and is currently assisting the COG in implementing this grant. The EPA grant-funded program funded various planning

and environmental assessment activities at 11 brownfield properties ranging in size from less than 1 acre to 20+ acres. Former land uses included service stations, dry cleaners, auto and heavy equipment service and repair, and manufacturing. Environmental work managed by Leonard for this project has included the completion of: 1) a comprehensive brownfield inventory; 2) Phase I Environmental Site Assessments (ESAs) for nine sites; 3) sampling and analysis plans, health and safety plans, Endangered Species Act/National Historic Preservation Act clearance activities, and Phase II ESAs for nine sites; 4) site-specific reuse/remedial planning for one site; 5) two areawide plans, 6) numerous community outreach functions; and 7) EPA reporting.

City of Eugene | Brownfield Program

Management | Eugene/Springfield, Oregon |

Program Manger

The Eugene/Springfield brownfield program initially was funded by a \$680,000 fiscal year 2012 EPA brownfield grant. Leonard was responsible for implementation of the brownfield program. The initial grant program funded 13 brownfield projects ranging in size from less than 1 acre to 20 acres (including the EWEB Headquarters property described below). Former land uses included service stations, dry cleaners, auto and heavy equipment service and repair, manufacturing, and a former steam plant. In fiscal year 2018, Leonard prepared a new brownfield grant application, obtaining an additional \$500,000 in EPA funding for the program. Since October of 2017, Leonard has completed a wide variety of projects at an additional 16 brownfield properties. Environmental work managed by Leonard to date has included: 1) four focus area

brownfield inventories; 2) Phase I Environmental Site Assessments (ESAs) for 23 sites; 3) sampling and analysis plans, health and safety plans, Endangered Species Act/National Historic Preservation Act clearance activities, and Phase II ESAs for 19 sites; 4) reuse/remedial planning for three sites; 5) various community outreach functions; and 6) EPA reporting.

Portland Water Bureau | WRX Water Main Project | Portland, Oregon | Environmental Manager Leonard is managing all environmental aspects of this project to incorporate resiliency into the City of Portland's water delivery system through the installation of a new 30-inch water main crossing beneath the Willamette River. The six water pipelines that currently cross the Willamette River are either hung under bridges or buried in soils susceptible to liquefaction. Work managed by Leonard has included: 1) extensive environmental assessment of the new pipeline alignment, 2) developing a plan for the management of contaminated soils identified along the alignment, and 3) supporting development of a dewatering plan for contaminated groundwater necessitated by construction of an 80-foot deep by 40-foot diameter shaft required to facilitate horizontal drilling beneath the Willamette River.

EWEB | Headquarters Property Site Assessment | Fugene, Oregon | Project Manager In October 2010, the Eugene Water and Electric Board (EWEB) relocated its Field Operations Center from its Headquarters Property to West Eugene, freeing up 17 acres of prime downtown waterfront property for redevelopment. On behalf of EWEB and the Eugene/Springfield brownfield program, Leonard has completed three environmental projects that have resolved all environmental issues at the site. One project included supplemental site assessment and Closure Report preparation to obtain a No Further Action (NFA) letter from the Oregon Department of Environmental Quality (DEQ) for a release from a former 100,000-gallon Bunker C underground storage tank associated with a Steam Plant the formerly operated on the site. DEQ issued an NFA for the release on July 24, 2015. Another project, funded by the Eugene/Springfield brownfield program, included a comprehensive Phase II ESA. More than 250 borings were drilled at the site as part of this assessment, Next, utilizing the Phase II ESA data. Leonard designed and implemented a remediation program that included an interim removal action of four areas of soil contamination, and a risk assessment

demonstrating that residual contamination did not pose a risk to human health or the environment. Following the completion of this work, the DEQ issued an NFA letter for the entire site in 2018.

Holman Enterprises | Various Environmental Due Diligence | Multi-State | Program Manager Leonard has provided prior-to-purchase environmental due diligence services across the western United States for Holman Enterprises for more than a decade. He has managed the completion of 15 Phase I ESAs, nine Phase II ESAs, and four regulated building material surveys on behalf of Holman.



USER PROVIDED INFORMATION QUESTIONNAIRE FOR PHASE I ENVIRONMENTAL ASSESSMENT



This questionnaire outlines those responsibilities discussed in Section 6 of the American Society of Testing & Materials (ASTM) Method E 1527-21 "Standard Practice for Conducting Environmental Site Assessments: Phase I Environmental Site Assessment Process."

Please complete this questionnaire to the best of your ability. Upon completion of the questionnaire, please return the form via email to carrie.rackey@stantec.com. Should you have questions while completing this questionnaire, please contact Carrie Rackey at (971) 221-1092. Thank you.

PROPERTY INFORMATION

Address: Taxmap: 61015BA06100 and 61015BA06500

PROPERTY INFORMATION/QUESTIONS				
Do you have any knowledge of environmental liens against the property that are filed or recorded under federal, tribal, state of local law? Yes Nox				
If Yes, Explain				
Do you have any knowledge of activity and land use limitations (such as land use restrictions, engineering controls, or institutional controls) that are in place on the site or that have been filed or recorded in a registry under federal, tribal, state of local law? Yes NoX				
If Yes, Explain				
Do you have specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business? Yes NoX				
If Yes, Explain				
Does the purchase price of the property reasonably reflect the fair market value of the property? Yes No If No, is lower purchase price due to known or perceived contamination at the property?				
Explain: N/A - Property was surplus owned by Clatsop County and given to Seaside for the				
the development of affordable housing.				
Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence of likely presence of releases at the property? Yes No X				
If Yes, Explain There are adjacent properties that have industrial uses and some of their equipment				

encroaches on the subject property that could have caused some contamination.

		1	
SIGNATURE		12	
Signature of Perso	n Completing Form:		
Printed Name of Po	erson Completing Form: _	J. Flory	
Date:07-26-			
Phone number:	503-738-7100		

Appendix D	ENVIRONMENTA	L AGENCY DATAE REPORT	BASE SEARCH

N. North Forty Hwy 101 and 24th Avenue Seaside, OR 97138

Inquiry Number: 7388409.2s

July 12, 2023

The EDR Radius Map™ Report with GeoCheck®



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

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

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

HWY 101 AND 24TH AVENUE SEASIDE, OR 97138

COORDINATES

Latitude (North): 46.0094130 - 46° 0' 33.88" Longitude (West): 123.9148130 - 123° 54' 53.32"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 429173.9 UTM Y (Meters): 5095282.0

Elevation: 5 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 14877661 GEARHART, OR

Version Date: 2020

South Map: 14878242 TILLAMOOK HEAD, OR

Version Date: 2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20200726 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: HWY 101 AND 24TH AVENUE SEASIDE, OR 97138

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	BILLS SHELL SERVICE	2323 S HOLLADAY	EDR Hist Auto	Higher	11, 0.002, NW
A2	SEASIDE BP/MARITIME	2323 S HOLLADAY	ECSI, LUST	Higher	11, 0.002, NW
3	SOPKO WELDING	841 24TH AVE	RCRA NonGen / NLR	Higher	99, 0.019, NE
A4	FRANK HANK & LEO INC	2375 N HOLLADAY	EDR Hist Auto	Higher	132, 0.025, North
B5	ADMIN SCHOOL DIST #1	1985 N ROOSEVELT	UST	Higher	288, 0.055, South
C6	THOMAS J CARMICHAEL	941 24TH AVE	RCRA NonGen / NLR, FINDS, ECHO	Higher	362, 0.069, ENE
C7	WILCOX & FLEGEL-SEAS	941 24TH AVE	AST, AIRS, HSIS, NPDES, UIC	Higher	362, 0.069, ENE
B8	RAY LYNCH SERVICE	2080 N ROOSEVELT	LUST, UST	Higher	383, 0.073, SSW
9	HEATING OIL TANK	724 25TH AVE	LUST	Lower	880, 0.167, North
D10	DTM ENTERPRISES	1929 S HOLLADAY DR	UST	Higher	958, 0.181, SW
D11	WATERHOUSE LOGGING S	1929 S HOLLADAY DR.	ECSI, CRL, INST CONTROL, VCP	Higher	958, 0.181, SW
D12	SEASIDE GULL #411	1883 S HOLLADAY	LUST	Higher	1068, 0.202, SW
E13	DON'S UNION SERVICE	1616 S HOLLADAY	LUST, UST, OR HAZMAT	Higher	1706, 0.323, SSW
E14	HEATING OIL TANK	1610 N HOLLADAY DR	LUST	Higher	1770, 0.335, SSW
15	HEATING OIL TANK	821 16TH AVE	LUST	Higher	1784, 0.338, SSW
16	HEATING OIL TANK	1325 N HOLLADAY	LUST	Higher	2543, 0.482, SSW
17	BAYVIEW TRANSIT MIX	1399 OSTER RD.	ECSI, AST, VCP	Higher	3023, 0.573, NNE
18	CURS SEASIDE AHOT	1750 LEWIS AND CLARK	ECSI, SPILLS	Higher	3143, 0.595, East
19	MIZAR DISTRIBUTORS	1200 G ST	ECSI	Higher	3412, 0.646, North
20	SEASIDE LLC	HIGHWAY 101 AND NINT	ECSI, VCP	Higher	3523, 0.667, SSW
21	WITTE ESTATE - AUTO	1701 OSTER RD.	ECSI	Higher	4083, 0.773, NE

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

Lists of Federal NPL (Supe	rfund) sites
NPL	National Priority List
	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens
Lists of Federal Delisted No	PL sites
Delisted NPL	National Priority List Deletions
Lists of Federal sites subje	ect to CERCLA removals and CERCLA orders
	Federal Facility Site Information listing
SEMS	Superfund Enterprise Management System
Lists of Essianal OFBOLA	ice with NEDAD
Lists of Federal CERCLA s	
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Lists of Federal BCRA facil	lities undergoing Corrective Action
CORRACTS	Corrective Action Report
Lists of Federal RCRA TSD) facilities
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
Lists of Federal RCRA gene	erators
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 contro	ols / engineering controls registries
LUCIS	Land Use Control Information System
	•

US INST CONTROLS..... Institutional Controls Sites List Federal ERNS list ERNS..... Emergency Response Notification System Lists of state and tribal landfills and solid waste disposal facilities SWF/LF..... Solid Waste Facilities List Lists of state and tribal leaking storage tanks INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land Lists of state and tribal registered storage tanks FEMA UST...... Underground Storage Tank Listing INDIAN UST...... Underground Storage Tanks on Indian Land

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

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Recorded at ESCI Sites

Lists of state and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield 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

SWRCY...... Recycling Facility Location Listing HIST LF..... Old Closed SW Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN...... Columbia Slough

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL...... Uninhabitable Drug Lab Properties

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

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

Other Ascertainable Records

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

RAATS......RCRA Administrative Action Tracking System

ICIS...... Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

MLTS...... Material Licensing Tracking System COAL ASH DOE...... Steam-Electric Plant Operation Data

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

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

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

DOT OPS..... Incident and Accident Data

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

INDIAN RESERV.....Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS..... Lead Smelter Sites

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

US MINES...... Mines Master Index File

ABANDONED MINES..... Abandoned Mines

JXO..... Unexploded Ordnance Sites

FUELS PROGRAM..... EPA Fuels Program Registered Listing

PFAS NPL Superfund Sites with PFAS Detections Information

PFAS FEDERAL SITES..... Federal Sites PFAS Information

PFAS TSCA..... PFAS Manufacture and Imports Information

PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing

PFAS ECHO..... Facilities in Industries that May Be Handling PFAS Listing

PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing

PFAS PART 139 AIRPORT... All Certified Part 139 Airports PFAS Information Listing

AQUEOUS FOAM NRC...... Aqueous Foam Related Incidents Listing

PFAS PFAS Site Contamination Listing
AQUEOUS FOAM AFFF Contamination Site Listing
AIRS Oregon Title V Facility Listing
COAL ASH Disposal Sites Listing

DRYCLEANERS...... Drycleaning Facilities
Enforcement..... Enforcement Action Listing

Financial Assurance Information Listing HSIS...... Hazardous Substance Information Survey

MANIFEST..... Manifest Information

UIC..... Underground Injection Control Program Database

MINES MRDS...... Mineral Resources Data System PFAS TRIS..... List of PFAS Added to the TRI

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the ECSI list, as provided by EDR, and dated 03/01/2023 has revealed that there are 7

ECSI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SEASIDE BP/MARITIME Size: 0.47 acres Investigation: No Further Action State ID Number: 3317	2323 S HOLLADAY	NW 0 - 1/8 (0.002 mi.)	A2	8
WATERHOUSE LOGGING S Investigation: Listed on the CRL/Inventory State ID Number: 2252	1929 S HOLLADAY DR.	SW 1/8 - 1/4 (0.181 mi.)	D11	39
BAYVIEW TRANSIT MIX Size: 8.22 acres, total Investigation: No Further Action State ID Number: 2541	1399 OSTER RD.	NNE 1/2 - 1 (0.573 mi.)	17	57
CURS SEASIDE AHOT Investigation: Suspect State ID Number: 4628	1750 LEWIS AND CLARK	E 1/2 - 1 (0.595 mi.)	18	91
MIZAR DISTRIBUTORS Investigation: Suspect State ID Number: 2564	1200 G ST	N 1/2 - 1 (0.646 mi.)	19	94
SEASIDE LLC Investigation: No Further Action State ID Number: 1849	HIGHWAY 101 AND NINT	SSW 1/2 - 1 (0.667 mi.)	20	96
WITTE ESTATE - AUTO Investigation: Suspect State ID Number: 3825 Decode For Further Action: Medium	1701 OSTER RD.	NE 1/2 - 1 (0.773 mi.)	21	106

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

A review of the CRL list, as provided by EDR, and dated 02/01/2023 has revealed that there is 1 CRL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
WATERHOUSE LOGGING S Facility Status: No Further Action (Cor	1929 S HOLLADAY DR.	SW 1/8 - 1/4 (0.181 mi.)	D11	39	
Facility Id: 2252	iditional)				

Lists of state and tribal leaking storage tanks

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

A review of the LUST list, as provided by EDR, and dated 01/11/2023 has revealed that there are 8 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SEASIDE BP/MARITIME	2323 S HOLLADAY	NW 0 - 1/8 (0.002 mi.)	A2	8

Facility ID: 04-90-0079 Cleanup Complete: 11/25/1996				
RAY LYNCH SERVICE Facility ID: 04-99-0757 Cleanup Complete: 12/09/2009	2080 N ROOSEVELT	SSW 0 - 1/8 (0.073 mi.)	B8	38
SEASIDE GULL #411 Facility ID: 04-88-0068 Facility ID: 04-89-0204 Cleanup Complete: 09/01/1989 Cleanup Complete: 11/12/2003	1883 S HOLLADAY	SW 1/8 - 1/4 (0.202 mi.)	D12	52
DON'S UNION SERVICE Facility ID: 04-93-0169 Cleanup Complete: 08/30/2011	1616 S HOLLADAY	SSW 1/4 - 1/2 (0.323 mi.)	E13	53
HEATING OIL TANK Facility ID: 04-21-1031	1610 N HOLLADAY DR	SSW 1/4 - 1/2 (0.335 mi.)	E14	56
HEATING OIL TANK Facility ID: 04-08-1447 Cleanup Complete: 04/17/2009	821 16TH AVE	SSW 1/4 - 1/2 (0.338 mi.)	15	56
HEATING OIL TANK Facility ID: 04-04-0955 Cleanup Complete: 07/03/2007	1325 N HOLLADAY	SSW 1/4 - 1/2 (0.482 mi.)	16	56
Lower Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 04-11-1170 Cleanup Complete: 01/04/2013	724 25TH AVE	N 1/8 - 1/4 (0.167 mi.)	9	38

Lists of state and tribal registered storage tanks

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

A review of the UST list, as provided by EDR, and dated 01/11/2023 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Address Direction / Distance		Page	
ADMIN SCHOOL DIST #1 Facility ID: 1777	1985 N ROOSEVELT	S 0 - 1/8 (0.055 mi.)	B5	16	
RAY LYNCH SERVICE Facility ID: 8916	2080 N ROOSEVELT	SSW 0 - 1/8 (0.073 mi.)	B8	38	
DTM ENTERPRISES Facility ID: 3399	1929 S HOLLADAY DR	SW 1/8 - 1/4 (0.181 mi.)	D10	39	

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

A review of the AST list, as provided by EDR, and dated 10/20/2022 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
WILCOX & FLEGEL-SEAS Facility Id: 17818	941 24TH AVE	ENE 0 - 1/8 (0.069 mi.)	C7	19	

State and tribal institutional control / engineering control registries

INST CONTROL: Sites with Engineering or Institutional Controls.

A review of the INST CONTROL list, as provided by EDR, and dated 03/01/2023 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
WATERHOUSE LOGGING S Site Id: 2252	1929 S HOLLADAY DR.	SW 1/8 - 1/4 (0.181 mi.)	D11	39	

Lists of state and tribal voluntary cleanup sites

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

A review of the VCP list, as provided by EDR, and dated 08/16/2022 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WATERHOUSE LOGGING S	1929 S HOLLADAY DR.	SW 1/8 - 1/4 (0.181 mi.)	D11	39

Action: Proposal for Confirmed Release List recommended

Action: Facility proposed for Inventory Action: No Further Action (Conditional)

Action: VCS Waiting List Action: Site added to database

*Additional key fields are available in the Map Findings section

ECS Site ID: 2252

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/06/2023 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
SOPKO WELDING EPA ID:: ORSTATE06683	841 24TH AVE	NE 0 - 1/8 (0.019 mi.)	3	13	
THOMAS J CARMICHAEL EPA ID:: ORD980665475	941 24TH AVE	ENE 0 - 1/8 (0.069 mi.)	C6	16	

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

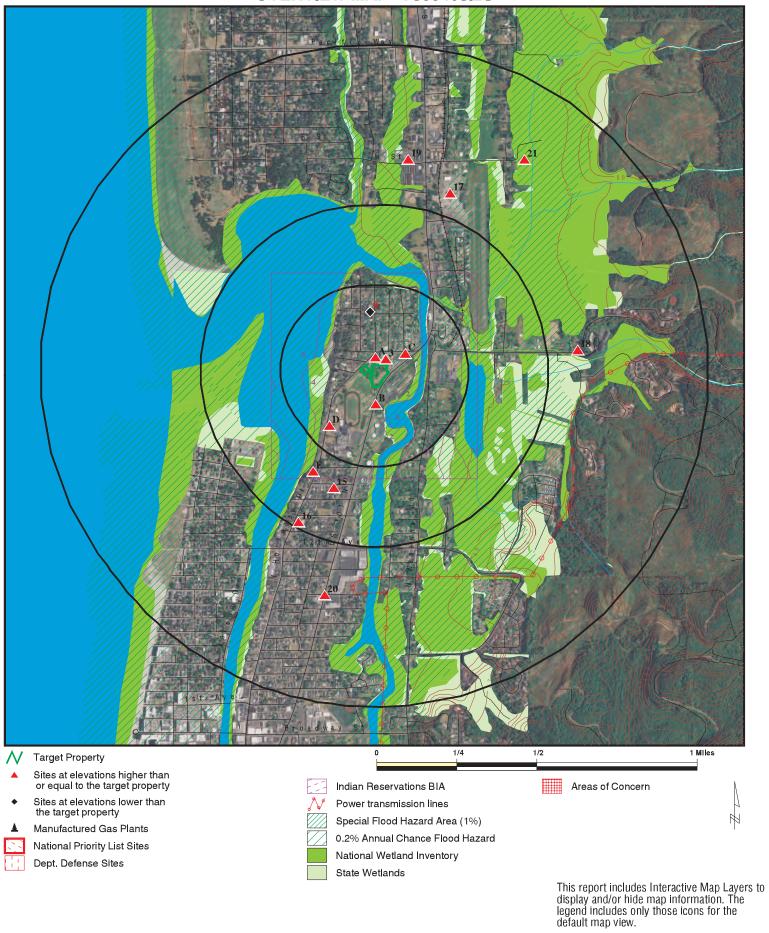
EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion,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

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

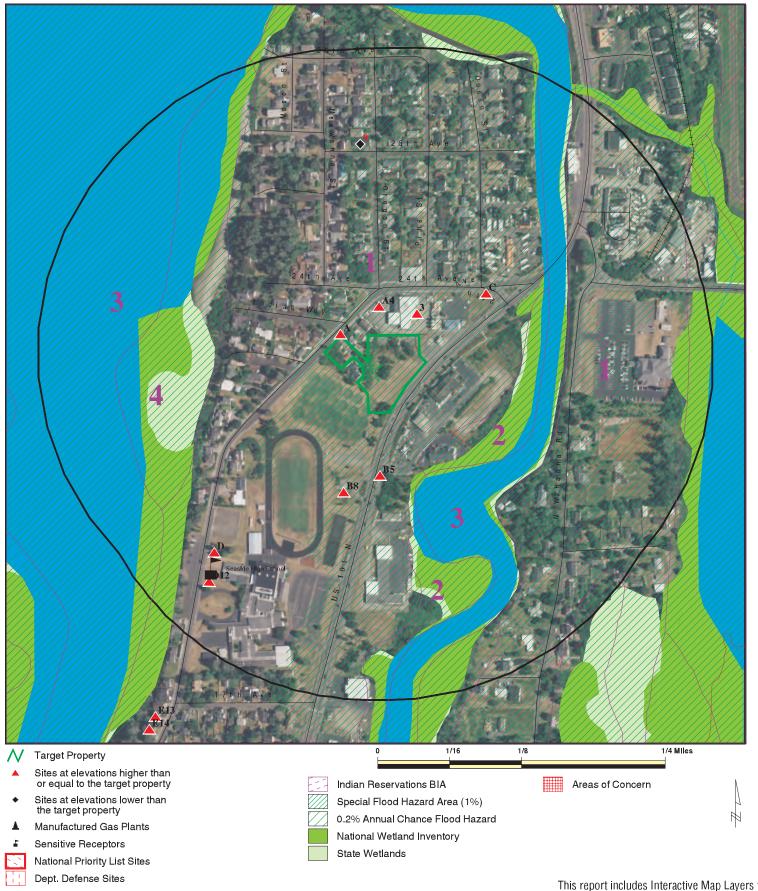
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
BILLS SHELL SERVICE	2323 S HOLLADAY	NW 0 - 1/8 (0.002 mi.)	A1	8	
FRANK HANK & LEO INC	2375 N HOLLADAY	N 0 - 1/8 (0.025 mi.)	A4	15	

There were no unmapped sites in this report.

OVERVIEW MAP - 7388409.2S



DETAIL MAP - 7388409.2S



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

SITE NAME: N. North Forty
ADDRESS: Hwy 101 and 24th Avenue
Seaside OR 97138
LAT/LONG: 46.009413 / 123.914813

CLIENT: CONTACT: Stantec Carrie Rackey

INQUIRY#: 7388409.2s DATE: July 12, 2023 5:24 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 ENVIRONMENT	AL RECORDS							
Lists of Federal NPL (Su	perfund) site:	s						
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Lists of Federal Delisted	NPL sites							
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites sul CERCLA removals and C		rs						
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0	NR NR	NR NR	0 0
Lists of Federal CERCLA	sites with N	FRAP						
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA fa undergoing Corrective A								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA To	SD facilities							
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA ge	enerators							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilitie	es							
ECSI CRL	1.000 1.000		1 0	1 1	0 0	5 0	NR NR	7 1
Lists of state and tribal la and solid waste disposal								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal le	eaking storag	je tanks						
LUST	0.500		2	2	4	NR	NR	8

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	<u>> 1</u>	Total Plotted	
INDIAN LUST	0.500		0	0	0	NR	NR	0	
Lists of state and tribal registered storage tanks									
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 2 1 0	0 1 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 3 1 0	
State and tribal institutional control / engineering control registries									
ENG CONTROLS INST CONTROL	0.500 0.500		0	0 1	0 0	NR NR	NR NR	0 1	
Lists of state and tribal	voluntary clea	anup sites							
VCP INDIAN VCP	0.500 0.500		0 0	1 0	0 0	NR NR	NR NR	1 0	
Lists of state and tribal brownfield 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									
SWRCY HIST LF INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500 0.500		0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	NR NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0	
Local Lists of Hazardous waste / Contaminated Sites									
AOCONCERN US HIST CDL CDL US CDL	1.000 TP TP TP		0 NR NR NR	0 NR NR NR	0 NR NR NR	0 NR NR NR	NR NR NR NR	0 0 0 0	
Local Land Records									
LIENS 2	TP		NR	NR	NR	NR	NR	0	
Records of Emergency Release Reports									
HMIRS SPILLS OR HAZMAT SPILLS 90	TP TP TP TP		NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0	
Other Ascertainable Records									
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2	

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
	` 							
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA PCB TRANSFORMER	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		Ö	ő	ő	0	NR	0
FUSRAP	1.000		Ö	Ö	ő	Õ	NR	Ő
UMTRA	0.500		Ö	Ö	0	NR	NR	Ō
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST PFAS ATSDR	0.250 0.250		0	0	NR NR	NR NR	NR NR	0
PFAS WQP	0.250		0 0	0 0	NR	NR	NR	0 0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAININ			0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT			0	Ö	NR	NR	NR	Ö
AQUEOUS FOAM NRC	0.250		Ö	ŏ	NR	NR	NR	Ő
PFAS	0.250		Ö	Ö	NR	NR	NR	Ö
AQUEOUS FOAM	0.250		Ö	Ö	NR	NR	NR	Ö
AIRS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Enforcement	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HSIS	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORI EDR Exclusive Record EDR MGP EDR Hist Auto EDR Hist Cleaner			0 2 0	0 NR NR	0 NR NR	0 NR NR	NR NR NR	0 2 0
EDR RECOVERED GOVE	RNMENT ARCHIV	<u>/ES</u>						
Exclusive Recovered (Govt. Archives							
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	Ö
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	10	7	4	5	0	26

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Direction Distance

EDR ID Number Elevation Site **EPA ID Number** Database(s)

Α1 **BILLS SHELL SERVICE EDR Hist Auto** 1021191582

Type:

N/A

ECSI

LUST

S106249740

N/A

NW 2323 S HOLLADAY SEASIDE, OR 97138 < 1/8

0.002 mi.

11 ft. Site 1 of 3 in cluster A

Relative: Actual:

5 ft.

EDR Hist Auto Year:

Name:

Higher

1976 **BILLS SHELL SERVICE** Gasoline Service Stations Gasoline Service Stations 1977 **BILLS SHELL SERVICE** 1978 **BILLS SHELL SERVICE Gasoline Service Stations** 1979 **BILLS SHELL SERVICE Gasoline Service Stations** 1980 **BILLS SHELL SERVICE** Gasoline Service Stations 1982 **BILLS SHELL SERVICE Gasoline Service Stations** 1983 **BILLS SHELL SERVICE** Gasoline Service Stations 1985 **BILLS SHELL SERVICE** Gasoline Service Stations 1986 **BILLS SHELL SERVICE** Gasoline Service Stations 1987 SEASIDE SHELL SERVICE Gasoline Service Stations

1987 **BILLS SHELL SERVICE** Gasoline Service Stations 1988 RICKS SHELL & RV CENTER General Automotive Repair Shops

1988 SEASIDE SHELL SERVICE Gasoline Service Stations 1988 **BILLS SHELL SERVICE** Gasoline Service Stations 1989 SEASIDE SHELL SERVICE Gasoline Service Stations 1990 SEASIDE SHELL SERVICE Gasoline Service Stations 1991 SEASIDE SHELL SERVICE Gasoline Service Stations 1992 MAGILLS SEASIDE AUTOMOTIVE Gasoline Service Stations 1993 MAGILLS SEASIDE AUTOMOTIVE Gasoline Service Stations 1994 MAGILLS SEASIDE AUTOMOTIVE Gasoline Service Stations 1995 MAGILLS SEASIDE AUTOMOTIVE Gasoline Service Stations

2001 MAGILLS SEASIDE AUTOMOTIVE **Gasoline Service Stations** 2002 MAGILLS SEASIDE AUTOMOTIVE Gasoline Service Stations

A2 SEASIDE BP/MARITIME FUEL

NW 2323 S HOLLADAY < 1/8 SEASIDE, OR 97138

0.002 mi.

11 ft. Site 2 of 3 in cluster A

Relative: FCSI:

Higher SEASIDE BP/MARITIME FUEL Name: Address: 2323 S HOLLADAY Actual: City, State, Zip: SEASIDE, OR 97138 5 ft.

> State ID Number: 3317 Brown ID: n Study Area: False Region ID: Not reported Legislatve ID: 838

No Further Action Investigation:

FACA ID: 21370 Further Action:

Lat/Long (dms): 45 58 44.00 / -123 55 36.00

County Code: 4.00 Score Value: Not reported Cerclis ID: Not reported Township Coord.: 6.00

Township Zone: 10.00 Range Coord: W Range Zone: Section Coord: 28

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE BP/MARITIME FUEL (Continued)

S106249740

EDR ID Number

Qtr Section: AC Tax Lots: 300 Size: 0.47 acres NPL: False Orphan: True Updated By: **MFRISTE** Update Date: 08/01/2018 Created Date: 04/11/2002 Decode For RegionID: Not reported Decode For BrownID: Not reported Decode For Furtheract: Not reported Decode For Investstat: No Further Action Decode For Legislative: Orphan Site Account

Alias Name: Seaside Vapors
Alias Name: Truax Harris #11
Alias Name: Maritime Fuel

Hazardous Release:

Substance ID.: 121983 Haz Release ID: 387839 Qty Released: unk Date Released: unk Update Date: 07/06/2011 Update By: **GWISTAR** Substance Code: ECD173 Substance Name: **GASOLINE** Substance Abbrev.: Not reported Substance Category ID: 8530

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8530

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Narrative:

NARR ID: 5742310

NARR Code: Contamination

Created By: Not reported

Created Date: 12/17/2002

Updated By: KDANA

Updated Date: 01/30/2003

Decode for NarcdID: Contamination

NARR Comments: (4/10/02 BAG/SRP) On Secretaria

(4/10/02 BAG/SRP) On January 24, 2002, the City of Seaside Fire Marshal reported gasoline vapors in the Motel 6 building located at 2369 S Roosevelt Drive (also known as Highway 101 and S Holladay). On January 25, DEQ staff conducted a site inspection to investigate the source of the vapors. The focus of the investigation was the Seaside BP/Maritime Fuel facility located at 2323 S Holladay owned by REM Properties, which discovered a gasoline loss on January 18. The inspection documented <quot>sudden loss<quot> readings on the automatic UST leak detectors. On January 28, Maritime discontinued fuel dispensing and initiated UST integrity tests. On January 30, Maritime conducted UST integrity testing. One of the USTs failed the leakage test. Test pits were installed around the USTs on February 2,

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE BP/MARITIME FUEL (Continued)

S106249740

EDR ID Number

but did not identify vapors. Based on these findings, REM declined to conduct further investigations off-site.

NARR ID: 5742968
NARR Code: Data Sources
Created By: KDANA
Created Date: 01/30/2003
Updated By: GWISTAR
Updated Date: 04/07/2004
Decode for NarcdID: Data Sources

NARR Comments: 1) LUST #04-90-0079 (closed January 1997). 2) LUST #04-02-0004.

NARR ID: 5742311

NARR Code: Hazardous Substance/Waste Types

Created By: Not reported Created Date: 12/17/2002 Updated By: Not reported Updated Date: 12/17/2002

Decode for NarcdID: Hazardous Substance/Waste Types

NARR Comments: Gasoline.

NARR ID: 5742312

NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002

Updated By: Not reported
Updated Date: 12/17/2002

Decode for NarcdID: Manner of Release

NARR Comments: Leaking underground storage tank (LUST) and/or dispenser island.

NARR ID: 5742313

NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002

Updated By: KROBERT
Updated Date: 03/18/2013
Decode for NarcdID: Remedial Action

NARR Comments: (4/11/02 BAG/SRP) Soil vapor extraction system (SVE) installed by DEQ

contractor in early February 2002. SVE systems have abated vapor

intrusion into buildings. DEQ issued a Task Order to its contractor to conduct a field reconnaissance to include installation of groundwater monitoring/vapor extraction wells, along utility corridors to both the Motel 6 and Caldwell Banker facilities, to evaluate whether utility conduits are the mechanism for vapor intrusion into these structures. The contractor designed and installed vapor-recovery systems to address the vapor intrusion into buildings and is performing air monitoring to assess the effectiveness of vapor-mitigation activities. The contractor also conducted a focused groundwater investigation to characterize hydrogeologic conditions in the area necessary to develop a more comprehensive mitigation plan and/or to identify the source of the contamination. (3/18/2013 KJR/SAS) NFA issued for site on 3/18/13. See NFA and NFA decision document (dated 3/10/13) in the site document section of this database for additional information.

NARR ID: 5750294 NARR Code: 1922

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE BP/MARITIME FUEL (Continued)

S106249740

EDR ID Number

Created By: GWISTAR
Created Date: 04/01/2008
Updated By: KROBERT
Updated Date: 03/18/2013

Decode for NarcdID: Current Site Summary Statement

NARR Comments: (March 2013) A no further action determination was issued for the

site in March 2013. Select site reports and documents may be viewed in the site document section of this database. For more information, see DEQ's leaking underground storage tank file #04-02-0004.

Administrative Action:

Action ID: 9424

Region: Northwestern Region

Complete Date: 04/11/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9491

Region: Northwestern Region

Complete Date: 12/19/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: 0

Comments: Not reported

Action ID: 9442

Region: Northwestern Region

Complete Date: 04/10/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9453

Region: Northwestern Region

Complete Date: 06/30/2002
Rank Value: Not reported
Cleanup Flag: False

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE BP/MARITIME FUEL (Continued)

S106249740

EDR ID Number

Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: ORPHAN SITE Further Action: 0

Comments: Not reported

Action ID: 9477

Region: Northwestern Region

Complete Date: 12/19/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/28/2012

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Refer to LUST Program

Further Action: 0

Comments: Not reported

Action ID: 9443

Region: Eastern Region
Complete Date: 03/18/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2013

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Eastern Region

Category: Remedial Action

Action Code Flag: False

Action: NO FURTHER STATE ACTION REQUIRED

Further Action: 0

Comments: Not reported

Operations:

Operation Id: 134463 **Operation Status:** Active Seaside BP Common Name: Yrs of Operation: Unknown Comments: service station **Updated Date:** 01/30/2003 Updated By: **KDANA** Decode for OpstatID: Active Operations SIC Id: 198099 SIC Code: 5541 **KDANA** Created By: Created Date: 01/30/2003

LUST:

Name: TRUAX-HARRIS #411
Address: 2323 S HOLLADAY STREET
City,State,Zip: SEASIDE, OR 97138
Region: North Western Region

Facility ID: 04-90-0079

Distance

Elevation Site Database(s) EPA ID Number

SEASIDE BP/MARITIME FUEL (Continued)

S106249740

EDR ID Number

ORSTATE06683

Cleanup Received Date: 02/22/1990 Cleanup Start Date: 02/21/1990 Cleanup Complete Date: 11/25/1996

Decode for Region: North West Region

3 SOPKO WELDING RCRA NonGen / NLR 1015748820

NE 841 24TH AVE < 1/8 SEASIDE, OR 97138

0.019 mi. 99 ft.

Relative: RCRA Listings:

HigherDate Form Received by Agency:20061121Actual:Handler Name:Sopko Welding5 ft.Handler Address:841 24TH AVE

Handler City, State, Zip: SEASIDE, OR 97138-7304

EPA ID: ORSTATE06683 Contact Name: Not reported Contact Address: Not reported Contact City, State, Zip: Not reported Contact Telephone: Not reported Contact Fax: Not reported Contact Email: Not reported Contact Title: Not reported EPA Region: 10 Other Land Type:

Federal Waste Generator Description: Not a generator, verified

Non-Notifier: Not reported Biennial Report Cycle: Not reported Accessibility: Not reported Active Site Indicator: Not reported State District Owner: Not reported State District: Not reported Mailing Address: Not reported Mailing City, State, Zip: Not reported Owner Name: Not reported Owner Type: Not reported Operator Name: Not reported Not reported Operator Type:

Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: Nο Recycler Activity with Storage: No Small Quantity On-Site Burner Exemption: No Smelting Melting and Refining Furnace Exemption: No **Underground Injection Control:** No Off-Site Waste Receipt: No Universal Waste Indicator: No Universal Waste Destination Facility: No Federal Universal Waste: No Active Site State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: NN

Sub-Part K Indicator: Not reported
2018 GPRA Permit Baseline: Not on the Baseline
2018 GPRA Renewals Baseline: Not on the Baseline

Distance Elevation

Site Database(s) EPA ID Number

SOPKO WELDING (Continued)

1015748820

EDR ID Number

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Corrective Action Priority Ranking:

No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A Significant Non-Complier Universe: No Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No

Financial Assurance Required:
Handler Date of Last Change:
Recognized Trader-Importer:
Recognized Trader-Exporter:
Importer of Spent Lead Acid Batteries:
No
Exporter of Spent Lead Acid Batteries:
No
No

Recycler Activity Without Storage:

Manifest Broker:

Not reported

Not reported

Sub-Part P Indicator: No

Historic Generators:

Receive Date: 20061121

Handler Name: SOPKO WELDING

Federal Waste Generator Description: Not a generator, verified

State District Owner: Not reported

Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes

Non Storage Recycler Activity: Not reported Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation: No

Agency Which Determined Violation: Not reported Violation Short Description: Not reported Date Violation was Determined: Not reported Actual Return to Compliance Date: Not reported Return to Compliance Qualifier: Not reported Violation Responsible Agency: Not reported Scheduled Compliance Date: Not reported Enforcement Identifier: Not reported Date of Enforcement Action: Not reported Not reported Enforcement Responsible Agency: **Enforcement Docket Number:** Not reported Enforcement Attorney: Not reported Corrective Action Component: Not reported Appeal Initiated Date: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SOPKO WELDING (Continued)

1015748820

Appeal Resolution Date: Not reported Disposition Status Date: Not reported Disposition Status: Not reported Disposition Status Description: Not reported

Consent/Final Order Sequence Number:Not reported

Consent/Final Order Respondent Name: Not reported Consent/Final Order Lead Agency: Not reported

Enforcement Type: Not reported

Enforcement Responsible Person: Not reported Enforcement Responsible Sub-Organization: Not reported

SEP Sequence Number: Not reported

SEP Expenditure Amount: Not reported SEP Scheduled Completion Date: Not reported SEP Actual Date: Not reported SEP Defaulted Date: Not reported SEP Type: Not reported SEP Type Description: Not reported Proposed Amount: Not reported Final Monetary Amount: Not reported Paid Amount: Not reported Final Count: Not reported Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 20061116 Evaluation Responsible Agency: State Found Violation:

Evaluation Type Description: COMPLIANCE ASSISTANCE VISIT

Evaluation Responsible Person Identifier: ORRCG Evaluation Responsible Sub-Organization: **NWR** Actual Return to Compliance Date: Not reported Scheduled Compliance Date: Not reported Date of Request: Not reported Date Response Received: Not reported Request Agency: Not reported Former Citation: Not reported

Α4 FRANK HANK & LEO INCORPORATED

EDR Hist Auto 1020460145 North 2375 N HOLLADAY N/A

< 1/8 SEASIDE, OR 97138

0.025 mi.

132 ft. Site 3 of 3 in cluster A

Relative: Higher

EDR Hist Auto

Year: Name: Type: Actual:

1982 FRANK HANK & LEO INCORPORATED Fuel Oil Dealers 5 ft. FRANK HANK & LEO INCORPORATED Fuel Oil Dealers

Direction Distance

Elevation Site Database(s) EPA ID Number

B5 ADMIN SCHOOL DIST #10 - BUS GARAGE UST U000431889
South 1985 N ROOSEVELT N/A

South 1985 N ROOSEVELT < 1/8 SEASIDE, OR 97138

0.055 mi.

288 ft. Site 1 of 2 in cluster B

Relative: UST:

Higher Name: ADMIN SCHOOL DIST #10 - BUS GARAGE

Actual: Address: 1985 N ROOSEVELT

5 ft. City: SEASIDE Facility ID: 1777

Facility Telephone: (503) 738-7150

Permittee Name: RICHARD WHITLOCK, TRANSPORTATION SUPER

Number of Permitted Tanks: Not reported Active Tanks: Not reported

Decommissioned Tanks: 3 Number of Tanks: 3

C6 THOMAS J CARMICHAEL INC RCRA NonGen / NLR 1000296471

ENE 941 24TH AVE FINDS ORD980665475

20010117

< 1/8 SEASIDE, OR 97138 ECHO

0.069 mi.

362 ft. Site 1 of 2 in cluster C

Relative: RCRA Listings:
Higher Date Form Received by Agency:

Actual: Handler Name: Thomas J Carmichael Inc

5 ft. Handler Address: 941 24TH AVE
Handler City, State, Zip: SEASIDE, OR 97138

Handler City, State, Zip: SEASIDE, OR 9/138
EPA ID: ORD980665475
Contact Name: THOMAS J. CARMICHAEL

Contact Address: PO BOX 1068
Contact City, State, Zip: ASTORIA, OR 97103
Contact Telephone: 503-325-3122

Contact Telephone: 503-325-3122
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 10

Land Type: Other

Federal Waste Generator Description: Not a generator, verified

Non-Notifier: Not reported Not reported Biennial Report Cycle: Accessibility: Not reported Active Site Indicator: Not reported State District Owner: Not reported State District: Not reported PO BOX 1068 Mailing Address: Mailing City, State, Zip: ASTORIA, OR 97103 Owner Name: Thomas J Carmichael Inc

Owner Type: Other
Operator Name: Not reported
Operator Type: Not reported

Short-Term Generator Activity: No Importer Activity: No Mixed Waste Generator: No Transporter Activity: No Transfer Facility Activity: No Recycler Activity with Storage: No Small Quantity On-Site Burner Exemption: No Smelting Melting and Refining Furnace Exemption: No

EDR ID Number

Distance Elevation Site

Site Database(s) EPA ID Number

THOMAS J CARMICHAEL INC (Continued)

1000296471

EDR ID Number

Underground Injection Control:

Off-Site Waste Receipt:

Universal Waste Indicator:

Universal Waste Destination Facility:

No
Federal Universal Waste:

No
Active Site State-Reg Handler:

Federal Facility Indicator: Not reported

Hazardous Secondary Material Indicator: NN

Sub-Part K Indicator:

2018 GPRA Permit Baseline:

Not on the Baseline

2018 GPRA Renewals Baseline:

Not on the Baseline

202 GPRA Corrective Action Baseline:

Subject to Corrective Action Universe:

No
Non-TSDFs Where RCRA CA has Been Imposed Universe:

No

Corrective Action Priority Ranking: No NCAPS ranking

Environmental Control Indicator: No Institutional Control Indicator: No Human Exposure Controls Indicator: N/A Groundwater Controls Indicator: N/A Significant Non-Complier Universe: No Unaddressed Significant Non-Complier Universe: No Addressed Significant Non-Complier Universe: No Significant Non-Complier With a Compliance Schedule Universe: No

Financial Assurance Required:
Handler Date of Last Change:
Recognized Trader-Importer:
Recognized Trader-Exporter:
No
No

Recognized Trader-Exporter:

Importer of Spent Lead Acid Batteries:

No
Exporter of Spent Lead Acid Batteries:

No
Recycler Activity Without Storage:

Note

Recycler Activity Without Storage:

Manifest Broker:

Not reported

Not reported

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:
Owner/Operator Name: THOMAS J CARMICHAEL INC
Legal Status:
Private
Date Became Current:
19810701
Date Ended Current:
Not reported
Owner/Operator Address:
10 5TH ST

Owner/Operator City, State, Zip:
Owner/Operator Telephone:
Owner/Operator Telephone Ext:
Owner/Operator Fax:
Owner/Operator Fax:
Owner/Operator Email:

ASTORIA, OR 97103
S03-325-3122
Not reported
Not reported
Not reported

Owner/Operator Indicator: Operator

Owner/Operator Name: THOMAS J CARMICHAEL INC

Legal Status: Private
Date Became Current: 19810701
Date Ended Current: Not reported
Owner/Operator Address: 10 5TH ST

Owner/Operator City,State,Zip:

Owner/Operator Telephone:

Owner/Operator Telephone Ext:

Owner/Operator Fax:

ASTORIA, OR 97103

503-325-3122

Not reported

Not reported

Distance Elevation

tion Site Database(s) EPA ID Number

THOMAS J CARMICHAEL INC (Continued)

1000296471

EDR ID Number

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THOMAS J CARMICHAEL INC

 Legal Status:
 Other

 Date Became Current:
 20010117

 Date Ended Current:
 Not reported

 Owner/Operator Address:
 10 5TH ST

Owner/Operator City, State, Zip: ASTORIA, OR 97103

Owner/Operator Telephone:

Owner/Operator Telephone Ext:

Owner/Operator Fax:

Owner/Operator Email:

Not reported

Not reported

Not reported

Historic Generators:

Receive Date: 19810701

Handler Name: THOMAS J CARMICHAEL INC

Federal Waste Generator Description: Not a generator, verified

State District Owner: Not reported

Large Quantity Handler of Universal Waste:

Recognized Trader Importer:

No
Recognized Trader Exporter:

No
Spent Lead Acid Battery Importer:

No
Spent Lead Acid Battery Exporter:

No
Current Record:

No

Non Storage Recycler Activity: Not reported Electronic Manifest Broker: Not reported

Receive Date: 20010117

Handler Name: THOMAS J CARMICHAEL INC

Federal Waste Generator Description: Not a generator, verified

State District Owner: Not reported

Large Quantity Handler of Universal Waste: No Recognized Trader Importer: No Recognized Trader Exporter: No Spent Lead Acid Battery Importer: No Spent Lead Acid Battery Exporter: No Current Record: Yes Non Storage Recycler Activity: Not re

Non Storage Recycler Activity: Not reported Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 48832

NAICS Description: MARINE CARGO HANDLING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110004789827

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

THOMAS J CARMICHAEL INC (Continued)

1000296471

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:

Envid: 1000296471 Registry ID: 110004789827

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110004789827

THOMAS J CARMICHAEL INC Name:

Address: 941 24TH AVE SEASIDE, OR 97138 City, State, Zip:

S108663582 **C7 WILCOX & FLEGEL-SEASIDE PLANT AST**

ENE 941 24TH AVE **AIRS** N/A

SEASIDE, OR 97138 < 1/8 **HSIS NPDES**

0.069 mi.

362 ft. Site 2 of 2 in cluster C UIC

Relative: AST:

Higher Facility ID: 17818

Name: WILCOX & FLEGEL-SEASIDE PLANT Actual:

5 ft. Address: 941 24TH AVE City, State, Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported

Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron

Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2021 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Not reported Status:

PETROLEUM JOBBER Nature of Business:

NAICS Code: 424710 Maximum Daily Amount Code: 30

10,000-49,999 Maximum Daily Amount Code Range:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID:

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138

Substance: GASOLINE UNLEADED WITH 10% ETHANOL

No

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2021 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: Yes

Facility ID: 17818

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual

Report Year: 2020 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No Status:

Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID:

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138

Substance: GASOLINE UNLEADED WITH 10% ETHANOL

No

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2020 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: Yes

Facility ID: 17818

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122

Report Class: Annual Report Year: 2017 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No Status:

Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID:

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138

Substance: GASOLINE UNLEADED WITH 10% ETHANOL

No

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2017 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: Yes

Facility ID: 17818

WILCOX & FLEGEL-SEASIDE PLANT Name:

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Annual

Report Class: Report Year: 2018 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No Status:

Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance

Elevation Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 17818

Name: WILCOX & FLEGEL-SEASIDE PLANT

Address: 941 24TH AVE
City,State,Zip: SEASIDE, OR 97138

Substance: GASOLINE UNLEADED WITH 10% ETHANOL

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2018 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported

Nature of Business: PETROLEUM JOBBER

NAICS Code: 424710

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: Yes

Facility ID: 17818

WILCOX & FLEGEL-SEASIDE PLANT Name:

941 24TH AVE Address: City,State,Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual 2019

Report Year: Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No Status:

Not reported

PETROLEUM JOBBER Nature of Business:

424710 NAICS Code:

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

levation Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 17818

Name: WILCOX & FLEGEL-SEASIDE PLANT

Address: 941 24TH AVE
City,State,Zip: SEASIDE, OR 97138

Substance: GASOLINE UNLEADED WITH 10% ETHANOL

No

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual Report Year: 2019 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported

Nature of Business: PETROLEUM JOBBER

NAICS Code: 424710

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

tion Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Is Sudden Release of Pressure Hazard: No Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: Yes

Facility ID: 17818

Name: WILCOX & FLEGEL-SEASIDE PLANT

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138 Substance: **BIODIESEL 5%** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: Aaron Direct Site Phone: 5033253122 Report Class: Annual(Revision)

Report Year: 2017
Is Poisonous Gas: No
Is Poisonous Material: No
Is Biological Hazard: No
Is Radioactive Material: No
Is Explosive: No

Status: Not reported

Nature of Business: PETROLEUM JOBBER

NAICS Code: 424710

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Direction Distance Elevation

nce EDR ID Number tition Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Is Sudden Release of Pressure Hazard: Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: Nο Is Emission of Gas With Water: No Is Organic Peroxide: No Is Oxidizer: No Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: Yes Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Yes Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: No Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

<u>Click this hyperlink</u> while viewing on your computer to access 2 additional OR AST: record(s) in the EDR Site Report.

AIRS:

 Source ID:
 Not reported

 Permit Number:
 04-0091-22-01

 Address:
 941 24TH AVE

 Name:
 WILSON OIL INC.

 City,State,Zip:
 SEASIDE, OR 97138

 Year:
 Not reported

Permit Type: General Permit Attachment ACDP

Expiration Date: 03/01/2025
Pollutant: Not reported Issue Date: 07/30/2020
Emissions: Not reported NAICS Code: 424710
Is NAICS Code Primary: Not reported SIC Code: 5171

Is SIC Code Primary: Not reported Latitude: 46.0103 Longitude: -123.9134 **Emission Source Code:** Not reported Emission Source Description: Not reported Process Code: Not reported Process Description: Not reported Not reported Process Unit: SCC: Not reported Throughput: Not reported Throughput Type: Not reported

Direction Distance Elevation

istance EDR ID Number levation Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Source ID: Not reported 04-0091-17-01 Permit Number: Address: 941 24TH AVE WILSON OIL INC. Name: City, State, Zip: SEASIDE, OR 97138 Year: Not reported Permit Type: General (1) ACDP Expiration Date: 12/01/2024 Pollutant: Not reported Issue Date: 01/08/2020 Emissions: Not reported NAICS Code: 424710 Is NAICS Code Primary: Not reported SIC Code: 5171 Is SIC Code Primary: Not reported Latitude: 46.0103 Longitude: -123.9134 Emission Source Code: Not reported **Emission Source Description:** Not reported Process Code: Not reported Process Description: Not reported Process Unit: Not reported SCC: Not reported Throughput: Not reported Throughput Type: Not reported

HSIS:

Name: WILCOX & FLEGEL-SEASIDE PLANT

 Address:
 941 24TH AVE

 City, State, Zip:
 SEASIDE, OR 97138

 Facility ID:
 17818

Department Or Division Of Company: Not reported Chemical Is Extremely Hazardous Substance (EHS: Not reported Contains 112R: Not reported Facility Has Written Emergency Plan: Not reported NAICS Code 1: Not reported Not reported NAICS Desc 1: NAICS Code 2: Not reported NAICS Desc 2: Not reported Manager Name: Not reported Business Phone: Not reported Mailing Address: Not reported Mailing City: Not reported Mailing State: Not reported Mailing Zip: Not reported No. of Employees: Not reported Day Phone: Not reported Placard: Not reported Fire Dept Code: Not reported

FD: SEASIDE F&R
Sprinkler System: Not reported
Emergency Contact: Not reported
Emergency Procedure: Not reported
Business Type: Not reported
Facility Type: Private

Department: WILSON OIL INC

Status: ACTIVE

Direction Distance Elevation

ation Site Database(s) EPA ID Number

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

Latitude: 46.01 Longitude: -123.913 Status TRI: Active Status RMP: Active Status PSM: Active Status CR2K: Inactive Status 302: Active Aaron Wilcox Owner Name: Last Reported ID: 98194 Case Number: N/A Chemical Name: Not reported

Chemical Name:

EHS Name:

Not reported

Is Pure:

No

Is Pure: No Is Mix: Yes

Is EHS: Not reported Mixture Component: N-HEXANE

Maximum Daily Amount Code: 30
Maximum Daily Amount Unit: gal

Chemical Added Date: 10/24/2017

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid UNNA Number: 1203 NFPA Health: 1 NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice: N/A

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Is EHS: Not reported
Mixture Component: HEPTANE
Maximum Daily Amount Code: 30

Maximum Daily Amount Code: 30
Maximum Daily Amount Unit: gal

Chemical Added Date: 10/24/2017

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid UNNA Number: 1203 NFPA Health: NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice: N/A

Distance
Elevation Site Database(s)

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

EDR ID Number

EPA ID Number

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Is EHS: Not reported Mixture Component: BUTANE Maximum Daily Amount Code: 30 Maximum Daily Amount Unit: gal

Chemical Added Date: 10/24/2017

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid 1203 **UNNA Number:** NFPA Health: NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice: N/A

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Is EHS: Not reported
Mixture Component: EHTYLBENZENE

Maximum Daily Amount Code: 30
Maximum Daily Amount Unit: gal

Chemical Added Date: 10/24/2017

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: 1 NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice: N/A

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Number of Days Onsite: 365 2022 Year:

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported Is Pure: No

Is Mix: Yes Is EHS:

Not reported Mixture Component: **CYCLOHEXANE**

Maximum Daily Amount Code: 30 Maximum Daily Amount Unit: gal Chemical Added Date: 10/24/2017 Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: Nο Is Fertilizer: No Physical State: Liquid 1203 UNNA Number: NFPA Health: 1 NFPA Flammability: 3 0 NFPA Reactivity:

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 2022 Year:

NFPA Special Notice:

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Not reported Is EHS: Mixture Component: PENTANE Maximum Daily Amount Code: 30 Maximum Daily Amount Unit: gal 10/24/2017 Chemical Added Date:

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: 1 NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice:

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 2022 Year:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Case Number: N/A

Not reported Chemical Name: EHS Name: Not reported

Is Pure: No Is Mix: Yes Is EHS: Not reported

TOLUENE Mixture Component: Maximum Daily Amount Code: Maximum Daily Amount Unit: gal Chemical Added Date: 10/24/2017

Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: 1 NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice: N/A

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Is EHS: Not reported Mixture Component: GASOLINE, NATURAL

Maximum Daily Amount Code: Maximum Daily Amount Unit: gal Chemical Added Date: 10/24/2017 Is Chem PSM: No

Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: 1 NFPA Flammability: 3 NFPA Reactivity: 0 NFPA Special Notice:

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 2022 Year:

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

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

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

NFPA Special Notice:

S108663582

Is Pure: No Is Mix: Yes Is EHS: Not reported Mixture Component: BENZENE Maximum Daily Amount Code: 30 Maximum Daily Amount Unit: gal Chemical Added Date: 10/24/2017 Is Chem PSM: No Is Chem 112R: No Is Chem 302: No Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: NFPA Flammability: 3 NFPA Reactivity: 0

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

N/A

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name: Not reported EHS Name: Not reported

Is Pure: No Is Mix: Yes

Is EHS: Not reported Mixture Component: NAPHTHALENE

Maximum Daily Amount Code:30Maximum Daily Amount Unit:galChemical Added Date:10/24/2017Is Chem PSM:NoIs Chem 112R:NoIs Chem 302:NoIs Pesticide:NoIs Fertilizer:No

Is Fertilizer: No
Physical State: Liquid
UNNA Number: 1203
NFPA Health: 1
NFPA Flammability: 3
NFPA Reactivity: 0
NFPA Special Notice: N/A

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

 $Respiratory,\,Health\,\,Serious Eye,\,Health\,\,Skin Corrosion,\,Health\,\,$

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 Year: 2022

Case Number: N/A

Chemical Name:

EHS Name:

Is Pure:

Not reported

Not reported

Not reported

Not reported

Yes

Is EHS: Not reported

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

Mixture Component: **ISOPENTANE**

Maximum Daily Amount Code: 30 Maximum Daily Amount Unit: gal Chemical Added Date: 10/24/2017 Is Chem PSM: No Is Chem 112R: No Is Chem 302: No

Is Pesticide: No Is Fertilizer: No Physical State: Liquid **UNNA Number:** 1203 NFPA Health: 3 NFPA Flammability: NFPA Reactivity: 0 NFPA Special Notice:

Hazards: Health Acute, Health Aspiration, Health Carcinogenicity, Health

Respiratory, Health SeriousEye, Health SkinCorrosion, Health

SpecificOrganToxicity, Physical Combustive

Number of Days Onsite: 365 2022 Year:

> Click this hyperlink while viewing on your computer to access 16 additional OR HSIS: record(s) in the EDR Site Report.

NPDES:

Name: WILCOX & FLEGEL - SEASIDE PLANT

Address: 941 24TH AVE City, State, Zip: SEASIDE, OR 97138

WQ File Nbr: 112910

WILSON OIL, INC. Legal Name:

Region: **NWR** Pri SIC: 5171 Latitude: 46.0104 Longitude: -123.9138 Category: STM GEN12Z Permit Type: Permit Active: True

Permit Description: Stormwater; NPDES specific SIC codes

Expiration Date: 07/01/2026 EPA Number: ORR807236 UIC Facility: False

Admin Agent: **NW Region Office** Last Action Date: 07/01/2021 Permit Writer: Kennedy Compliance Inspector: Kennedy DMR Reviewer: Kennedy Application Number: 949156 **MINOR** Class: 04/22/2004 Start Date: Region Decode: North West Region Ownership: Not reported Permit Group: Not reported Not reported EPA Class: Permit Number: Not reported

OR UIC:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WILCOX & FLEGEL-SEASIDE PLANT (Continued)

S108663582

UST

N/A

Name: WILCOX & FLEGEL - SEASIDE PLANT

Address: 941 24TH AVE City,State,Zip: SEASIDE, OR 97138 UIC Well #: Not reported

Type: Not reported Type Description: Not reported UIC Number: 18340 Facility Status: Not reported Lat/Long: 46.0104 / -123.9138

RAY LYNCH SERVICE LUST U000431915 **B8**

SSW 2080 N ROOSEVELT < 1/8 SEASIDE, OR 97138

0.073 mi.

383 ft. Site 2 of 2 in cluster B

Relative: LUST: Higher Name:

RAY LYNCH SERVICE Address: 2080 N ROOSEVELT Actual: City,State,Zip: SEASIDE, OR 97138 5 ft. Region: North Western Region

Facility ID: 04-99-0757 Cleanup Received Date: 07/15/1999 07/06/1999 Cleanup Start Date: Cleanup Complete Date: 12/09/2009 Decode for Region: **North West Region**

UST:

RAY LYNCH SERVICE Name: Address: 2080 N ROOSEVELT

SEASIDE City: Facility ID: 8916

Facility Telephone: (503) 738-5610

Permittee Name: HELEN L. LYNCH, OWNER

Number of Permitted Tanks: Not reported Active Tanks: Not reported

Decommissioned Tanks: 3 Number of Tanks: 3

HEATING OIL TANK LUST S111429677 North **724 25TH AVE** N/A SEASIDE, OR 97138

1/8-1/4 0.167 mi. 880 ft.

LUST: Relative: Lower Name:

HEATING OIL TANK Address: 724 25TH AVE Actual: City, State, Zip: SEASIDE, OR 97138 4 ft. Region: North Western Region

Facility ID: 04-11-1170 Cleanup Received Date: 11/10/2011 Cleanup Start Date: Not reported Cleanup Complete Date: 01/04/2013 Decode for Region: **North West Region**

Direction Distance

Distance EDR ID Number

Elevation Site EDA ID Number

D10 DTM ENTERPRISES UST U000431897
SW 1929 S HOLLADAY DR N/A

SEASIDE, OR 97138

1/8-1/4 0.181 mi.

958 ft. Site 1 of 3 in cluster D

Relative: UST:

HigherName:DTM ENTERPRISESActual:Address:1929 S HOLLADAY DR

5 ft. City: SEASIDE Facility ID: 3399

Facility Telephone: (503)738-5435

Permittee Name: DAVID T MCCLEAN, OWNER

Number of Permitted Tanks: Not reported Active Tanks: Not reported

Decommissioned Tanks: 1
Number of Tanks: 1

D11 WATERHOUSE LOGGING SHOP ECSI S104186485 SW 1929 S HOLLADAY DR. CRL N/A

SW 1929 S HOLLADAY DR. CRL 1/8-1/4 SEASIDE, OR 97138 INST CONTROL VCP

958 ft. Site 2 of 3 in cluster D

Relative: ECSI:
Higher Name: WATERHOUSE LOGGING SHOP

 Actual:
 Address:
 1929 S HOLLADAY DR.

 5 ft.
 City,State,Zip:
 SEASIDE, OR 97138

 State ID Number:
 2252

 Brown ID:
 0

 Study Area:
 False

 Region ID:
 2

 Legislatve ID:
 831

Investigation: Listed on the CRL/Inventory

FACA ID: 20274 Further Action: 0

Lat/Long (dms): 45 58 54.00 / -123 55 34.00

County Code: 4.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 6.00
Township Zone: N
Range Coord: 10.00

Range Coord: 10.00
Range Zone: W
Section Coord: 28
Qtr Section: Not reported

Tax Lots: 600
Size: Not reported

NPL: False Orphan: False Updated By: **GWISTAR** Update Date: 05/25/2007 Created Date: 09/04/1998 Decode For RegionID: Northwest Region Decode For BrownID: Not reported Decode For Furtheract: Not reported

Decode For Investstat: Listed on the CRL/Inventory

Decode For Legislative: Owner, operator or other party under agreement, order or consent

decree under ORS 465.200 or 465.420

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

Hazardous Release:

122015 Substance ID.: Haz Release ID: 381951 Qty Released: Not reported Date Released: Not reported 04/15/1999 Update Date: Update By: Not reported ECD282 Substance Code: Substance Name: OIL - WASTE Substance Abbrev.: Not reported Substance Category ID: 8541

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8541

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Sampling Result ID: 340400
Feature Id: Not reported
Hazard Release Id: 381951
Medium: 703
Substance Abbrev.: Not reported

Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported Start Date: 07/30/1998 End Date: Not reported Min Concentration: Not reported Not reported Max Concentration:

Sample Comment: up to 2,220 mg/kg Last Update By: jmw Update Date: 04/15/1999

Decode for MediumID: Soil

Substance ID.: 121982
Haz Release ID: 382194
Qty Released: Not reported
Date Released: Not reported
Update Date: 10/20/1999
Update By: Not reported
Substance Code: ECD169

Substance Name: DIESEL - FUEL OIL Substance Abbrev.: Not reported

Substance Category ID: 8529

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported Created By: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

Created Date: 12/17/2002

Sampling Result ID: 340812
Feature Id: Not reported
Hazard Release Id: 382194
Medium: 703

Substance Abbrev.: Not reported Not reported Unit Code: Observation: False Owner Operator: False Lab Data: True Not reported Sample Depth: Start Date: 10/06/1998 End Date: Not reported Min Concentration: Not reported Max Concentration: Not reported Sample Comment: 735 mg/kg Last Update By: jmw 10/20/1999 Update Date:

Decode for MediumID: Soil

Substance ID.: 121587 Haz Release ID: 382195 Qtv Released: Not reported Date Released: Not reported Update Date: 10/20/1999 Update By: Not reported Substance Code: 67-64-1 Substance Name: **ACETONE** Substance Abbrev.: Not reported Substance Alias ID: 319114

Sub Alias Name: DIMETHYL KETONE

Substance Alias ID: 319115

Sub Alias Name: KETOPROPANE,beta-

Substance Alias ID: 319116

Sub Alias Name: PROPANONE,2-

Substance Alias ID: 319117

Sub Alias Name: PYROACETIC ETHER

Sampling Result ID: 340813
Feature Id: Not reported
Hazard Release Id: 382195
Medium: 698
Substance Abbrev.: Not reported

Unit Code:
Observation:
Owner Operator:
Lab Data:
Sample Depth:
Not reported
Not reported
True
Not reported

Start Date: 07/27/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 72.4 ug/L
Last Update By: jmw
Update Date: 10/20/1999
Decode for MediumID: Groundwater

Substance ID.: 121588

S104186485

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

Haz Release ID: 382196
Qty Released: Not reported
Date Released: Not reported
Update Date: 10/20/1999
Update By: Not reported
Substance Code: 67-66-3

CHLOROFORM Substance Name: Substance Abbrev.: Not reported Substance Category ID: 8510 Substance Category: Volatiles Category Level: Not reported Created By: Not reported 12/17/2002 Created Date: Substance Category ID: 8510 Substance Category: Volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Substance Alias ID: 319118

Sub Alias Name: METHANE, TRICHLORO-

Substance Alias ID: 319119

Sub Alias Name: TRICHLOROFORM

Substance Alias ID: 319120

Sub Alias Name: TRICHLOROMETHANE

Sampling Result ID: 340814 Feature Id: Not reported Hazard Release Id: 382196 Medium: 698 Substance Abbrev.: Not reported Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported 07/27/1998 Start Date: Not reported End Date:

End Date: Not reported Min Concentration: Not reported Max Concentration: Not reported Sample Comment: 12.8 ug/L jmw
Update Date: 10/20/1999
Decode for MediumID: Groundwater

Narrative:

NARR ID: 5737845

NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002

Updated By: Not reported
Updated Date: 12/17/2002

Decode for NarcdID: Contamination

NARR Comments: (9/4/98 JMW/VCP) Contamination originated from past truck maintenance

practices.

NARR ID: 5737846

NARR Code: Hazardous Substance/Waste Types

Created By: Not reported Created Date: 12/17/2002

Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

Updated By: Not reported Updated Date: 12/17/2002

Decode for NarcdID: Hazardous Substance/Waste Types

NARR Comments: Petroleum hydrocarbons

NARR ID: 5737847

NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release

NARR Comments: Maintenance and repair of trucks and heavy equipment at the site for

approximately 1940 - 1997 resulted in releases to the ground surface

of gasoline, diesel and oil range petroleum hydrocarbons.

NARR ID: 5737848

NARR Code: Media Contamination

Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Updated Carlon Maria Control

Decode for NarcdID: Media Contamination

NARR Comments: Soil. No hazardous substances are believed to be present in

groundwater above levels of concern.

NARR ID: 5737849

NARR Code: Pathways Other Hazards

Created By: Not reported Created Date: 12/17/2002 Updated By: Not reported Updated Date: 12/17/2002

Decode for NarcdID: Pathways & Other Hazards

NARR Comments: The site is currently unused but is bordered to the west by Highway

101, a single residential dwelling to the south and commercial properties to the north, east and south. A log pond and adjacent areas to the east may be developed into a city park. Soil at the site

is cobbly with little potential for off-site migration. Rainfall rapidly infiltrates with little runoff, but groundwater is at

approximately 10 feet below grade.

NARR ID: 5737850

NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002

Updated By: Not reported
Updated Date: 12/17/2002

Decode for NarcdID: Remedial Action

NARR Comments: (9/4/98 JMW/VCP) Contamination to soil due to truck maintenance from

logging shop. RP requested oversight from the VCP for No Further Action (NFA) for a pending estate settlement. (4/15/99 TER/VCP) A Letter Agreement was signed in February 1999 and DEQ is preparing a file review memo. (10/20/99 TER/VCP) DEQ completed a file review in

April 1999. Monitoring wells were installed in July 1999 and groundwater monitoring is ongoing. A land use determination was completed to assist in the risk assessment for the site. (8/1/00

TER/VCP) Groundwater was not found to be impacted at concentrations

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

of concern. A final risk assessment for soil showed an unacceptable risk for residential exposure, but acceptable risk for occupational exposure. A deed restriction will ensure site use does not become residential. (1/6/01 TER/VCP) The Easement and Equitable Servitude (deed restriction) was recorded with Clatsop County and a Conditional No Further Action (CNFA) determination was provided by DEQ on August 8, 2000. Project closed. The site will remain on DEQ's Confirmed Release List (CRL) and Inventory as long as the deed restriction is in effect.

Site Control:

Site Control #: 279 Control Number: 5 Begin Date: 07/2

Begin Date: 07/26/2000 End Date: Not reported

Frequency Of Review: 60

Last Reviewed By: Tom Roick
Last Reviewed Date: 07/26/2000
Last Update By: KROBERT
Last Updated Date: 03/04/2013

Site Comment: Property use restricted to commercial, non-residential uses.

Site Control #: 1429 Control Number: 3

Begin Date: 07/26/2000 End Date: Not reported

Frequency Of Review: 60

Last Reviewed By: Tom Roick
Last Reviewed Date: 07/26/2000
Last Update By: KDAUGHE
Last Updated Date: 05/25/2022

Site Comment: Deed restriction limits property to industrial use.

Administrative Action:

Action ID: 9438

Region: Northwestern Region

Complete Date: 01/23/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action Action Code Flag: False

Action: Facility placed on Confirmed Release List

Further Action: Not reported Comments: Not reported

Action ID: 9439

Region: Northwestern Region

 Complete Date:
 01/23/2001

 Rank Value:
 0

 Cleanup Flag:
 False

 Created Date:
 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action
Action Code Flag: False

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9411

Region: Northwestern Region

Complete Date: 08/08/2000 Rank Value: 0

Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: No Further Action (Conditional)
Further Action: Not reported
Comments: Not reported

Action ID: 9465

Region: Northwestern Region

Complete Date: 09/15/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action

Action Code Flag: False

Action: Facility proposed for Confirmed Release List

Further Action: Not reported Comments: Not reported

Action ID: 9467

Region: Northwestern Region

Complete Date: 09/15/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action Action Code Flag: False

Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9484

Region: Northwestern Region

Complete Date: 01/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: REMEDIAL INVESTIGATION

EDR ID Number

S104186485

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

Further Action: Not reported Comments: Not reported

Action ID: 9424

Region: Northwestern Region

Complete Date: 09/04/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519

Region: Northwestern Region

Complete Date: 02/19/1999
Rank Value: 7
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9440

Region: Northwestern Region

Complete Date: 02/28/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9442

Region: Northwestern Region

Complete Date: 04/30/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: NEGOTIATIONS
Further Action: Not reported

EDR ID Number

S104186485

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

Comments: Not reported

Action ID: 9486

Region: Northwestern Region

Complete Date: 01/18/2000
Rank Value: 0
Cleanup Flag: False

Decode for AgencyID: Department of Environmental Quality

12/17/2002

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Created Date:

Action: RISK ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9434

Region: Northwestern Region

Complete Date: Not reported

Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Institutional Control
Further Action: 0
Comments: Not reported

Action ID: 9459

Region: Northwestern Region

Complete Date: 04/30/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: PRELIMINARY ASSESSMENT EQUIVALENT

Further Action: Not reported Comments: Not reported

Action ID: 9498

Region: Northwestern Region

Complete Date: 07/26/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action Action Code Flag: False

Action: Proposal for Confirmed Release List recommended

Further Action: Not reported Comments: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

Action ID: 9499

Region: Northwestern Region

Complete Date: 07/26/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action Action Code Flag: False

Action: Proposal for Inventory recommended

Further Action: Not reported Comments: Not reported

Operations:

Operation Id: 133468
Operation Status: Inactive

Common Name: Waterhouse Logging Shop

Yrs of Operation: Not reported Comments: Not reported Updated Date: 08/04/2000 Updated By: jmw Decode for OpstatID: Inactive

CRL:

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

Facility ID: 2252 Location ID: 20274 Status Code: LIS

Facility Status: No Further Action (Conditional)

Lat/Long: 45.9816 / -123.9261

Institutional Control:

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

Site Control Sequence #: 1429
Site Id: 2252
Control Sequence #: 3
Begin Date: 07/26

Begin Date: 07/26/2000
End Date: Not reported
Frequency Of Review: 60

Last Reviewed By: Tom Roick
Last Review Date: 07/26/2000
Last Updated By: KDAUGHE
Last Updated Date: 05/25/2022

Group Sequence #: 2
Control Code: EES

Control Description: Easement Equitable Servitude

FK Type Code: 1
Group Code: PR
Group Description: Proprietary

Type Code:

Type Description: Institutional

Comments: Deed restriction limits property to industrial use.

EDR ID Number

S104186485

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

Site Control Sequence #: 279
Site Id: 2252
Control Sequence #: 5
Pagin Poto: 07/06

Begin Date: 07/26/2000 End Date: Not reported

Frequency Of Review: 60
Last Reviewed By: Tom Roick
Last Review Date: 07/26/2000
Last Updated By: KROBERT
Last Updated Date: 03/04/2013

Group Sequence #: 2 Control Code: USL

Control Description: Use Restriction Land

FK Type Code: 1
Group Code: PR
Group Description: Proprietary

Type Code:

Type Description: Institutional

Comments: Property use restricted to commercial, non-residential uses.

VCS:

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: Proposal for Confirmed Release List recommended

 Start Date:
 07/26/2000

 End Date:
 07/26/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252 Facility Size: Not reported

Action: Facility proposed for Inventory

 Start Date:
 09/15/2000

 End Date:
 09/15/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252 Facility Size: Not reported

Action: No Further Action (Conditional)

 Start Date:
 08/08/2000

 End Date:
 08/08/2000

 Program:
 VCS

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

Latitude: 45.9816 Longitude: -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

 Facility Size:
 Not reported

 Action:
 VCS Waiting List

 Start Date:
 09/04/1998

 End Date:
 02/19/1999

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: Site added to database

 Start Date:
 09/04/1998

 End Date:
 09/04/1998

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size:

Action:

NEGOTIATIONS
Start Date:

02/19/1999
End Date:

04/30/1999
Program:

VCS
Latitude:

45.9816
Longitude:

-123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

 Facility Size:
 Not reported

 Action:
 Letter Agreement

 Start Date:
 02/19/1999

 End Date:
 02/28/1999

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: Proposal for Inventory recommended

EDR ID Number

S104186485

Direction Distance

Elevation Site Database(s) EPA ID Number

WATERHOUSE LOGGING SHOP (Continued)

S104186485

EDR ID Number

 Start Date:
 07/26/2000

 End Date:
 07/26/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: REMEDIAL INVESTIGATION

 Start Date:
 05/01/1999

 End Date:
 01/18/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: RISK ASSESSMENT

 Start Date:
 05/01/1999

 End Date:
 01/18/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported
Action: Institutional Control
Start Date: 07/26/2000

End Date: Not reported Program: VCS Latitude: 45.9816 Longitude: -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: Facility proposed for Confirmed Release List

 Start Date:
 09/15/2000

 End Date:
 09/15/2000

 Program:
 VCS

 Latitude:
 45.9816

 Longitude:
 -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

WATERHOUSE LOGGING SHOP (Continued)

ECS Site ID: 2252

Facility Size: Not reported

Facility placed on Inventory Action:

Start Date: 01/23/2001 End Date: 01/23/2001 VCS Program: Latitude: 45.9816 Longitude: -123.9261

Name: WATERHOUSE LOGGING SHOP

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252

Facility Size: Not reported

Action: Facility placed on Confirmed Release List

Start Date: 01/23/2001 End Date: 01/23/2001 Program: VCS Latitude: 45.9816 -123.9261 Longitude:

WATERHOUSE LOGGING SHOP Name:

Address: 1929 S HOLLADAY DR. City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 2252 Facility Size: Not reported

Action: PRELIMINARY ASSESSMENT EQUIVALENT

Start Date: 02/28/1999 End Date: 04/30/1999 VCS Program: 45.9816 Latitude: Longitude: -123.9261

D12 **SEASIDE GULL #411** LUST U000431920 SW **1883 S HOLLADAY** N/A

1/8-1/4 SEASIDE, OR 97138 0.202 mi.

1068 ft. Site 3 of 3 in cluster D

LUST: Relative:

Higher Name: **SEASIDE GULL STATION #411** Address: 1883 S HOLLADAY Actual:

City,State,Zip: SEASIDE, OR 97138 North Western Region Region:

Facility ID: 04-88-0068 Cleanup Received Date: 10/03/1988 09/26/1988 Cleanup Start Date: Cleanup Complete Date: 09/01/1989

Decode for Region: **North West Region**

SEASIDE GULL #411 Name: Address: 1883 S HOLLADAY SEASIDE, OR 97138 City,State,Zip: North Western Region Region:

Facility ID: 04-89-0204 Cleanup Received Date: 09/21/1989 Cleanup Start Date: 09/21/1989 Cleanup Complete Date: 11/12/2003

S104186485

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

SEASIDE GULL #411 (Continued)

Decode for Region: North West Region

DON'S UNION SERVICE LUST U004014965

SSW 1616 S HOLLADAY UST N/A

1/4-1/2 SEASIDE, OR 97138 OR HAZMAT

0.323 mi.

E13

1706 ft. Site 1 of 2 in cluster E

Relative: LUST:

HigherName:DON'S UNION SERVICEActual:Address:1616 S HOLLADAY5 ft.City,State,Zip:SEASIDE, OR 97138Region:North Western Region

Facility ID: 04-93-0169
Cleanup Received Date: 09/29/1993
Cleanup Start Date: 09/30/1993
Cleanup Complete Date: 08/30/2011

Decode for Region: North West Region

UST:

Name: DON'S UNION SERVICE Address: 1616 S HOLLADAY

City: SEASIDE Facility ID: 184

Facility Telephone: (503) 738-9917
Permittee Name: DON HOLT, OWNER

Number of Permitted Tanks: Not reported Active Tanks: Not reported

Decommissioned Tanks: 4 Number of Tanks: 4

HAZMAT:

Name: Not reported

Address: 1616 S HOLLADAY DR City,State,Zip: SEASIDE, OR 97138

Responsble Party: DON HOLT

RP Company: DON'S UNION SVC STA
RP Address: 1616 S HOLLADAY
RP City,St,Zip: SEASIDE, OR 97138

Facility ID: 930432 **OERS Number:** Not reported SEASIDE F&R Dept Rsp: Narrative: Not reported Property Loss: Not reported Amount Released: Not reported Service County: Not reported Service Name: Not reported Incident Type: Not reported Civilian Casualty Activity: Not reported Chemical Name: Not reported Not reported Hazmat Area Affected: Not reported Hazmat Area Evacuated: Hazmat Container Type: Not reported Hazmat Physical State Released: Not reported Hazmat Released Into: Not reported Not reported Hazmat Released Volume Units: Not reported Hazmat Released Weight Units:

U000431920

Map ID MAP FINDINGS
Direction

Distance Elevation

ion Site Database(s) EPA ID Number

DON'S UNION SERVICE (Continued)

U004014965

EDR ID Number

Hazmat Released From: Not reported Not reported Hazmat Area Affected Measurement: Hazmat No. of People Evacuated: Not reported Hazmat No of Buildings Evacuated: Not reported Incident Content Loss: Not reported Not reported Civilian Casualty Patient Disposition: Not reported Incident Mixed Use Property: Location Type: Not reported Incident Aid Given Or Received: Not reported Incident AID Received from FDID: Not reported Incident Aided Department FDID: Not reported Person Involved Business Name: Not reported Person Involved First Name: Not reported Person Involved Last Name: Not reported Person Involved Type: Not reported Person Involved Phone Number: Not reported Person Involved Primary Language: Not reported Hazmat Evacuated Measurement: Not reported Hazmat Story of Release: Not reported Remark: Not reported Incident District: SEASIDE F&R Date Added: 01/01/1985 Unit: Not reported Agency Phone: 5037385420 Osfm Incident Report Number: 930432

Dept. Responding: SEASIDE F&R Person Making Report: JOE DOTSON Title: FIRE MARSH Agency: SEASIDE F&R 5037385420 Phone: Date Of Incident: 09/29/1993 Call Time: 12:00:00 AM In Route: 12:00:00 AM Arrival: 12:00:00 AM Depart Scene: 12:00:00 AM 12:00:00 AM Back In Quarters: 12:00:00 AM In Service: Dist Of Incident: SEASIDE F&R

Were State Resources Used?: False Was Oers Notified?: False Not reported Oers Number: Team Number: Not reported Agency Report Number: Not reported Not reported Unit: Not reported Highway: Mile Post: Not reported Scene Type: Public Structure Area Type: Industrial Responsible Party(les): DON HOLT

Company: DON'S UNION SVC STA

Respcontact: Not reported
Address: 1616 S HOLLADAY

 Resp City:
 SEASIDE

 Resp State:
 OR

 Resp ZipCode:
 97138

 Phone:
 5037389917

 Resp Phone2:
 Not reported

Direction Distance Elevation

stance EDR ID Number evation Site Database(s) EPA ID Number

DON'S UNION SERVICE (Continued)

U004014965

Weather: 0
Temperature: 0
Wind Speed: 0

Wind Direction: Not reported Were Haz Materials Released?: True

Operation Performed: Not reported
Cause: Improper Storage

1500 Vehicle And Cargo: Fixed Property: Total Loss: \$1,500.00 Hazmat Population Density: Not reported HazMat Actions Taken - Description: Not reported Hazmat Factors Contributing To Release: Not reported Hazmat DOT Hazard Classification: Not reported Not reported Hazmat CAS Number: Hazardous Materials Release: Not reported Fire Incident Type: Not reported Not reported Property Use: Latitude: Not reported Longitude: Not reported Hazmat Disposition: Not reported

Chemical:

Chemical Info: 2097
Chemical Id: 13288
Incident Id: 930432
Chemical Name: GASOLINE
UNNA: Not reported

Amount At Risk: 900
Amount Released: 0
Amount Measured: 2
Biological: False
Radiological: False

Chemical Id: 13288 Chemical Name: GASOLINE

Hazardous Ingredient: PETROLEUM DISTILLATES

Hazardous Class 1: 3.1
Hazardous Class 2: 6.3
Hazardous Rank: 2
Case Number: 8006619
UNNA Number: 1203
EPA Pest Reg: Not reported

EHA Chem: N PSM Chem: N CAA 112R Chem: N

Method:

Method Used Id: 5232 Incident Id: 930432 Identity Method: 5

Released:

Release Behavior Id: 4192 Incident Id: 930432 Behavior: 4

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

DON'S UNION SERVICE (Continued)

U004014965

N/A

Narrative:

4450 Narrative Id: 930432 Incident Id:

Incident Narrative: TANK LEAKING INTO GROUND. NOTIFIED DEQ -NO VISIBLE SIGNS OF GAS IN

WATERWAY OR SEWER. OWNER HAD TANK TESTED, "TANK WAS LEAKING". GAS

WAS REMOVED FROM THE TANK.

9/29/1993 Incident Date:

E14 **HEATING OIL TANK** LUST S128533466

SSW 1610 N HOLLADAY DR 1/4-1/2 SEASIDE, OR 97138

0.335 mi.

1770 ft. Site 2 of 2 in cluster E

LUST: Relative:

Higher Name: **HEATING OIL TANK** 1610 N HOLLADAY DR Address: Actual: City,State,Zip: SEASIDE, OR 97138 5 ft. Region: North Western Region

Facility ID: 04-21-1031 Cleanup Received Date: 10/18/2021 Cleanup Start Date: Not reported Cleanup Complete Date: Not reported Decode for Region: **North West Region**

15 **HEATING OIL TANK** LUST S109494004 SSW 821 16TH AVE N/A

1/4-1/2 SEASIDE, OR 97138

0.338 mi. 1784 ft.

Relative: LUST: Higher

Name: **HEATING OIL TANK** Address: 821 16TH AVE Actual: SEASIDE, OR 97138 City,State,Zip: 5 ft. North Western Region Region:

Facility ID: 04-08-1447 Cleanup Received Date: 11/18/2008 Cleanup Start Date: Not reported Cleanup Complete Date: 04/17/2009

Decode for Region: **North West Region**

LUST S106475083 **HEATING OIL TANK** 16

ssw 1325 N HOLLADAY 1/4-1/2 SEASIDE, OR 97138

0.482 mi.

2543 ft.

LUST: Relative:

Higher Name: **HEATING OIL TANK** Address: 1325 N HOLLADAY Actual: City,State,Zip: SEASIDE, OR 97138 6 ft.

North Western Region Region:

N/A

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX

8.22 acres, total

HEATING OIL TANK (Continued)

S106475083

S110280784

N/A

ECSI

AST

VCP

Facility ID: 04-04-0955 Cleanup Received Date: 05/25/2004 Cleanup Start Date: 05/26/2004 Cleanup Complete Date: 07/03/2007

Decode for Region: **North West Region**

17 **BAYVIEW TRANSIT MIX** NNE 1399 OSTER RD.

1/2-1 **GEARHART, OR 97138**

0.573 mi. 3023 ft.

ECSI: Relative: Higher Name:

Address: 1399 OSTER RD. Actual: City, State, Zip: GEARHART, OR 97138 26 ft.

State ID Number: 2541 Brown ID: 0 Study Area: False Region ID: 2 Legislatve ID: 0

Investigation: No Further Action

FACA ID: 23887 Further Action:

Lat/Long (dms): 46 1 3.40 / -123 54 35.30 County Code: 4.00

Score Value: Not reported Cerclis ID: Not reported Township Coord.: 6.00 Township Zone: Ν Range Coord: 10.00 Range Zone: W Section Coord: 10 Qtr Section: D+CA Tax Lots: 13 Tax Lots

NPL: False Orphan: False Updated By: **GWISTAR** Update Date: 12/11/2014 Created Date: 03/21/2000 Decode For RegionID: Northwest Region Decode For BrownID: Not reported Decode For Furtheract: Not reported No Further Action Decode For Investstat: Decode For Legislative: Not reported

JJ Perrigo Inc. Alias Name:

Hazardous Release:

Size:

Substance ID.: 121781 Haz Release ID: 387467 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code:

TRICHLOROETHYLENE Substance Name:

Substance Abbrev.: Not reported

Direction Distance Elevation

evation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545

Substance Category: Solvents of interest to Milwaukie Area GW study

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8523 Substance Category: Volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8545

Substance Category: Solvents of interest to Milwaukie Area GW study

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517

Sub Alias Name: ETHINYL TRICHLORIDE

Substance Alias ID: 317518

Sub Alias Name: ETHYLENE TRICHLORIDE

Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521

Sub Alias Name: TRICHLOROETHENE

349828 Sampling Result ID: Feature Id: O Hazard Release Id: 387467 Medium: 698 Substance Abbrev.: 0 8 Unit Code: Observation: True Owner Operator: False Lab Data: True 8 feet bgs Sample Depth: Start Date: 07/16/2002 End Date: Not reported Min Concentration: Not reported Max Concentration: 2192.00

Sample Comment: 2,192 ppb TCE in groundwater from UST excavation pit (7/16/02). 1,290

ppb TCE in gwr from UST excavation pit (7/26/02). 114 ppb in gwr after pumping 36,000 gallons from well (10/27/02). 23 ppb in gwr from

recovery well after purge (12/12/02).

Last Update By: SFORTUN
Update Date: 02/12/2010
Decode for MediumID: Groundwater

Substance ID.: 121907
Haz Release ID: 387468
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/12/2010

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

SFORTUN Update By: Substance Code: 95-50-1

Substance Name: DICHLOROBENZENE,1,2-

Substance Abbrev.: Not reported Substance Alias ID: 317942

BENZENE,1,2-DICHLORO-Sub Alias Name:

Substance Alias ID: 317943 Sub Alias Name: **CHLOROBEN** Substance Alias ID: 317944

Sub Alias Name: DICHLOROBENZENE,o-

Substance Alias ID: 317945 Sub Alias Name: DILANTIN DB Substance Alias ID: 317946 Sub Alias Name: DOWTHERM E

Sampling Result ID: 349830 Feature Id: Hazard Release Id: 387468 Medium: 698 Substance Abbrev.: 0 8 Unit Code: Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 08/20/2002 End Date: Not reported Min Concentration: Not reported

86 ppb 1,2-DCB in groundwater from pushprobe GT#2 (eastern edge of Sample Comment:

shop building) (8/20/02).

Last Update By: SFORTUN Update Date: 02/17/2010 Decode for MediumID: Groundwater

Max Concentration:

Substance ID.: 121433 Haz Release ID: 387469 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 541-73-1

Substance Name: DICHLOROBENZENE,1,3-

Substance Abbrev.: Not reported Substance Alias ID: 318708

Sub Alias Name: BENZENE,1,3-DICHLORO-

Substance Alias ID: 318709

Sub Alias Name: DICHLOROBENZENE, m-

True

8 ft bgs

Sampling Result ID: 349831 Feature Id: 0 Hazard Release Id: 387469 Medium: 698 Substance Abbrev.: Unit Code: 8 Observation: True Owner Operator: False

Lab Data:

Sample Depth:

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Start Date: 08/20/2002
End Date: Not reported
Min Concentration: Not reported
Max Concentration: 5.00

Sample Comment: 5 ppb 1,3-DCB in groundwater from pushprobe GT#2 (eastern edge of shop

building)(8/20/02).

Last Update By: SFORTUN
Update Date: 02/17/2010
Decode for MediumID: Groundwater

Substance ID.: 120838
Haz Release ID: 387470
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/12/2010
Update By: SFORTUN
Substance Code: 106-46-7

Substance Name: DICHLOROBENZENE,1,4-

Substance Abbrev.: Not reported Substance Alias ID: 316291

Sub Alias Name: BENZENE,1,4-DICHLORO-

Substance Alias ID: 316292
Sub Alias Name: DI-CHLORICIDE

Sub Alias Name: DI-CHLORICII
Substance Alias ID: 316293

Sub Alias Name: DICHLOROBENZENE,p-

Substance Alias ID: 316294

Sub Alias Name: PARADICHLOROBENZENE

Substance Alias ID: 316295 Sub Alias Name: **PARAMOTH** Substance Alias ID: 316296 PDB Sub Alias Name: Sampling Result ID: 349832 Feature Id: Hazard Release Id: 387470 698 Medium: Substance Abbrev.: 0 8 Unit Code:

Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 08/20/2002 End Date: Not reported Min Concentration: Not reported Max Concentration: 21.00

Sample Comment: 21 ppb 1,4-DCB i groundwater from pushprobe GT#2 (eastern edge of shop

building)(8/20/02).

Last Update By: SFORTUN Update Date: 02/17/2010 Decode for MediumID: Groundwater

Substance ID.: 120960
Haz Release ID: 387471
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/12/2010
Update By: SFORTUN

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Substance Code: 120-82-1

Substance Name: TRICHLOROBENZENE,1,2,4-

Substance Abbrev.: Not reported Substance Alias ID: 316730

Sub Alias Name: BENZENE,1,2,4-TRICHLORO-

Substance Alias ID: 316731

Sub Alias Name: TRICHLOROBENZENE,1,2,5-

Substance Alias ID: 316732

Sub Alias Name: TRICHLOROBENZENE,1,3,4-

Substance Alias ID: 316733

Sub Alias Name: TRICHLOROBENZENE,unsym-

Sampling Result ID: 349833 Feature Id: Hazard Release Id: 387471 Medium: 698 Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 08/20/2002 Not reported End Date: Min Concentration: Not reported

Max Concentration: 4.00

Sample Comment: 4 ppb 1,2,4-TCB in groundwater from pushprobe boring GT#2 (eastern

edge of shop building)(8/20/02).

Last Update By: SFORTUN
Update Date: 02/17/2010
Decode for MediumID: Groundwater

Substance ID.: 121868
Haz Release ID: 387472
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/12/2010
Update By: SFORTUN
Substance Code: 91-20-3

Substance Name: NAPHTHALENE Substance Abbrev.: Not reported

Substance Category ID: 8494

Substance Category: Semi-volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8494

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 317793 Sub Alias Name: MOTH BALLS Substance Alias ID: 317794 Sub Alias Name: NAPHTHENE Substance Alias ID: 317795

Sub Alias Name: TAR CAMPHOR

Sampling Result ID: 349829

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

TC7388409.2s Page 62

Feature Id: 0 387472 Hazard Release Id: 698 Medium: Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bas Start Date: 08/20/2002 End Date: Not reported Min Concentration: Not reported Max Concentration:

Sample Comment: 2 ppb naphthalene in groundwater from pushprobe boring GT#2 (eastern

edge of shop building)(8/20/02).

SFORTUN Last Update By: 02/17/2010 Update Date: Decode for MediumID: Groundwater

121610 Substance ID.: Haz Release ID: 387473 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 71-55-6

Substance Name: TRICHLOROETHANE,1,1,1-

Substance Abbrev.: Not reported Substance Category ID: 8521 Substance Category: Volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8552

Substance Category: Solvents of interest to Milwaukie Area GW study

Not reported Category Level: Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8521 Substance Category: Volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8552

Substance Category: Solvents of interest to Milwaukie Area GW study

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 319183 Sub Alias Name: **BALTANA** Substance Alias ID: 319184

Sub Alias Name: CHLOROTHENE

Substance Alias ID: 319185

Sub Alias Name: **METHYLCHLOROFORM**

Substance Alias ID: 318151 Sub Alias Name: TCA.1.1.1-Sampling Result ID: 349834

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Feature Id: 0 387473 Hazard Release Id: 698 Medium: Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bas Start Date: 07/29/1999 End Date: Not reported Not reported Min Concentration:

Sample Comment: 6 ppb 1,1,1-TCA detected in groundwater from hand augured boring

HA-5-GW in excavation pit beneath drain pan (7/29/99).

Last Update By: **SFORTUN** Update Date: 02/12/2010 Decode for MediumID: Groundwater

Max Concentration:

Substance ID.: 121167 Haz Release ID: 387474 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN**

Substance Code: 191-24-2

Substance Name: BENZO(ghi)PERYLENE

6.00

Substance Abbrev.: Not reported Substance Alias ID: 317305 Sub Alias Name: B(ghi)P 317306 Substance Alias ID:

Sub Alias Name: BENZOPERYLENE,1,12-

Substance Alias ID: 317307

Sub Alias Name: BENZPERYLENE,1,12-Sampling Result ID: 349835

Feature Id: Hazard Release Id: 387474 Medium: 698 Substance Abbrev.: 0 Unit Code: 8 Observation: True False Owner Operator: Lab Data: True Sample Depth: 8 ft bgs Start Date: 07/29/1999 End Date: Not reported Min Concentration: Not reported

Max Concentration: 14.20

Sample Comment: 14.2 ppb benzo(g,h,i)perylene in gwr from hand-augured boring HA-5-GW

in drain pan excavation pit (7/29/99). 1.3 ppb in groundwater beneath

waste oil tank vent pipe at 6 ft bgs (sample WOT-GW; 4/27/99).

Last Update By: **SFORTUN** 02/16/2010 Update Date: Decode for MediumID: Groundwater

Substance ID.: 121210 Haz Release ID: 387475

Direction Distance

Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN**

Substance Code: 218-01-9 Substance Name: **CHRYSENE** Not reported Substance Abbrev.: Substance Category ID: 8481

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8481

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported 12/17/2002 Created Date: Substance Alias ID: 317438

Sub Alias Name: BENZ(a)PHENANTHRENE

Substance Alias ID: 317439

Sub Alias Name: BENZPHENANTHRENE,1,2-

Substance Alias ID: 317440

Sub Alias Name: DIBENZONAPHTHALENE,1,2,5,6-

Sampling Result ID: 349836 Feature Id: 0 Hazard Release Id: 387475 Medium: 698 Substance Abbrev.: 0 8 Unit Code: Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bas 07/29/1999

Not reported End Date: Not reported Min Concentration: 16.90 Max Concentration:

Start Date:

Sample Comment: 16.9 ppb chrysene in groundwater from hand-augured boring HA-5-GW in

drain pan excavation pit (7/29/99).

Last Update By: **SFORTUN** Update Date: 02/12/2010 Decode for MediumID: Groundwater

Substance ID.: 121462 Haz Release ID: 387476 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 56-55-3

BENZO(a)ANTHRACENE Substance Name:

Substance Abbrev.: Not reported Substance Category ID: 8475

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Substance Category ID: 8475

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 318790

Sub Alias Name: BENZ(a)ANTHRACENE

Substance Alias ID: 318791

Sub Alias Name: BENZANTHRACENE,1,2-

Substance Alias ID: 318792

Sub Alias Name: **BENZANTHRENE**

Substance Alias ID: 318793

Sub Alias Name: **BENZOANTHRACENE**

Substance Alias ID: 318794

Sub Alias Name: BENZPHENANTHRENE,2,3-

Not reported

Not reported

20.50

Substance Alias ID: 318795

Sub Alias Name: **NAPHTHANTHRACENE**

Substance Alias ID: 318796 Sub Alias Name: **TETRAPHENE**

349837 Sampling Result ID: Feature Id: 0 387476 Hazard Release Id: Medium: 698 Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 07/29/1999

End Date:

Min Concentration:

Max Concentration:

Sample Comment: 20.5 ppb benzo(a)anthracene in groundwater from hand-augured boring

HA-5-GW in drain pan excavation pit (7/29/99).

SFORTUN Last Update By: Update Date: 02/12/2010 Decode for MediumID: Groundwater

Substance ID.: 121019 Haz Release ID: 387477 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code:

129-00-0 Substance Name: **PYRENE** Substance Abbrev.: Not reported Substance Category ID: 8497 Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported 12/17/2002 Created Date: Substance Category ID: 8497

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported

Direction Distance

Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Created Date: 12/17/2002 Substance Alias ID: 316950

Sub Alias Name: BENZO(def)PHENANTHRENE

Sampling Result ID: 349838 Feature Id: 0 Hazard Release Id: 387477 Medium: 698 Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 07/29/1999 End Date: Not reported Min Concentration: Not reported Max Concentration: 37.10

Sample Comment: 37.1 ppb pyrene in groundwater from hand-augured boring HA-5-GW in

drain pan excavation pit (7/29/99). 1.6 ppb pyrene in groundwater beneath waste oil tank vent pipe at 6 ft bgs (sample WOT-GW; 4/27/99).

SFORTUN Last Update By: Update Date: 02/16/2010 Decode for MediumID: Groundwater

Substance ID.: 121195 Haz Release ID: 387478 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN**

Substance Code: 206-44-0 Substance Name: **FLUORANTHENE** Substance Abbrev.: Not reported

Substance Category ID: 8491

Semi-volatiles Substance Category: Not reported Category Level: Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8491

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 317398

BENZACENAPHTHENE,1,2-Sub Alias Name:

Substance Alias ID: 317399

Sub Alias Name: BENZO(jk)FLUORENE

Sampling Result ID: 349839 Feature Id: 0 Hazard Release Id: 387478 Medium: 698 Substance Abbrev.: Unit Code: 8 True

Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs

Observation:

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Start Date: 07/29/1999 End Date: Not reported Min Concentration: Not reported Max Concentration: 13.60

Sample Comment: 13.6 ppb fluoranthene in groundwater from hand-augured boring HA-5-GW

in drain pan excavation pit (7/29/99).

SFORTUN Last Update By: Update Date: 02/12/2010 Decode for MediumID: Groundwater

121824 Substance ID.: Haz Release ID: 387479 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 85-01-8

PHENANTHRENE Substance Name: Substance Abbrev.: Not reported Substance Alias ID: 317648 Sub Alias Name: **PHENATHRIN**

Sampling Result ID: 349840 Feature Id: Hazard Release Id: 387479 Medium: 698 Substance Abbrev.: 0 Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs 07/29/1999 Start Date: End Date: Not reported

Max Concentration: 56.2 ppb phenanthrene in groundwater from hand-augured boring HA-5-GW Sample Comment:

in drain pan excavation pit (7/29/99).

Not reported

56.20

Last Update By: **SFORTUN** Update Date: 02/12/2010 Decode for MediumID: Groundwater

121829

Min Concentration:

Substance ID.:

Haz Release ID: 387480 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 86-73-7 **FLUORENE** Substance Name: Substance Abbrev.: Not reported Substance Category ID: 8489 Substance Category: Semi-volatiles Not reported Category Level: Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8489 Substance Category: Semi-volatiles

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Category Level: Not reported Not reported Created By: Created Date: 12/17/2002 Substance Alias ID: 317663

Sub Alias Name: BIPHENYLENEMETHANE,o-

Substance Alias ID: 317664

Sub Alias Name: **DIPHENYLENEMETHANE**

Substance Alias ID: 317665

Sub Alias Name: METHYLENEBIPHENYL,2,2'-

Sampling Result ID: 349841 Feature Id: 0 Hazard Release Id: 387480 Medium: 698 Substance Abbrev.: Unit Code: 8 Observation: True Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs 07/29/1999 Start Date: End Date: Not reported Min Concentration: Not reported 23.00 Max Concentration:

Sample Comment: 23 ppb fluorene in groundwater from hand-augured boring HA-5-GW in

drain pan excavation pit (7/29/99).

Last Update By: **SFORTUN** Update Date: 02/12/2010 Decode for MediumID: Groundwater

Substance ID.: 120878 Haz Release ID: 387481 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code:

108-67-8

Substance Name: TRIMETHYLBENZENE,1,3,5-

Substance Abbrev.: Not reported Substance Alias ID: 316454

Sub Alias Name: BENZENE,1,3,5-TRIMETHYL-

Substance Alias ID: 316455 Sub Alias Name: **MESITYLENE** Substance Alias ID: 316456

Sub Alias Name: TRIMENTHYLBENZENE, sym-

Substance Alias ID: 316457

TRIMETHYLBENZOL Sub Alias Name:

Sampling Result ID: 349843 Feature Id: 0 387481 Hazard Release Id: 698 Medium: Substance Abbrev.: 0 Unit Code: 8 Observation: True False Owner Operator: Lab Data: True Sample Depth: 8 ft bas Start Date: 07/29/1999

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

End Date: Not reported Min Concentration: Not reported

Max Concentration: 4.00

4 ppb 1,3,5-TMB in groundwater from hand-augured boring HA-5-GW in Sample Comment:

drain pan excavation pit (7/29/99).

SFORTUN Last Update By: Update Date: 02/12/2010 Decode for MediumID: Groundwater

Substance ID.: 121912 Haz Release ID: 387482 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: 95-63-6

TRIMETHYLBENZENE,1,2,4-Substance Name:

Substance Abbrev.: Not reported Substance Alias ID: 317959

BENZENE,1,2,5-TRIMETHYL-Sub Alias Name:

Substance Alias ID: 317960 Sub Alias Name: CUMENE, psi-Substance Alias ID: 317961

Sub Alias Name: **PSEUDOCUMENE**

Substance Alias ID: 317962 Sub Alias Name: **PSEUDOCUMOL**

Substance Alias ID: 317963

Sampling Result ID:

Sub Alias Name: TRIMETHYLBENZENE, asym-

349842 Feature Id: 0 387482 Hazard Release Id: Medium: 698 Substance Abbrev.: 0 Unit Code: 8 True Observation: Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs 07/29/1999 Start Date: End Date: Not reported Min Concentration: Not reported

Max Concentration: 2.00

Sample Comment: 2 ppb 1,2,4-TMB in groundwater from hand-augured boring HA-5-GW in

drain pan excavation pit (7/29/99).

SFORTUN Last Update By: 02/12/2010 Update Date: Decode for MediumID: Groundwater

Substance ID.: 121982 Haz Release ID: 387483 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN** Substance Code: ECD169

Substance Name: **DIESEL - FUEL OIL**

Substance Abbrev.: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Substance Category ID: 8529

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8529

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

Sampling Result ID: 349844 Feature Id: 0 387483 Hazard Release Id: Medium: 698 Substance Abbrev.: 0 Unit Code: 8 True Observation: Owner Operator: False Lab Data: True Sample Depth: 8 ft bgs Start Date: 07/29/1999 End Date: Not reported Not reported Min Concentration: Max Concentration: 110000.00

Sample Comment: 110,000 ppb diesel fuel in groundwater from hand-augured boring

HA-5-GW in drain pan excavation pit (7/29/99).

Last Update By: SFORTUN
Update Date: 02/12/2010
Decode for MediumID: Groundwater

Substance ID.: 121988
Haz Release ID: 387484
Qty Released: Unknown
Date Released: Unknown
Update Date: 02/12/2010
Update By: SFORTUN
Substance Code: ECD198

Substance Name: OIL - LUBRICATING

Substance Abbrev.: Not reported

Substance Category ID: 8531

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8531

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Sampling Result ID: 349845
Feature Id: 0
Hazard Release Id: 387484
Medium: 698
Substance Abbrev.: 0
Unit Code: 8
Observation: True
Owner Operator: False

Direction Distance

Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Lab Data: True Sample Depth: 8 ft bgs Start Date: 07/29/1999 End Date: Not reported Min Concentration: Not reported 450000.00 Max Concentration:

Sample Comment: 450,000 ppb oil in groundwater from hand-augured boring HA-5-GW in

> drain pan excavation pit (7/29/99). 10,000 ppb oil in groundwater beneath waste oil tank at 6 ft bgs (sample WOT-GW; 4/27/99).

Last Update By: **SFORTUN** Update Date: 02/12/2010 Decode for MediumID: Groundwater

Substance ID.: 121059 Haz Release ID: 387485 Qty Released: Unknown Date Released: Unknown Update Date: 02/12/2010 Update By: **SFORTUN**

1336-36-3 Substance Code: Substance Name: **PCBs** Substance Abbrev.: Not reported Substance Category ID: 8558

Substance Category: PCB Substances for the OSPIRG Report

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Category ID: 8558

PCB Substances for the OSPIRG Report Substance Category:

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 317029

BIPHENYL, POLYCHLORO-Sub Alias Name:

Substance Alias ID: 317030

Sub Alias Name: CHLORINATED BIPHENYL

Substance Alias ID: 317031

Sub Alias Name: **CHLOROBIPHENYL**

Substance Alias ID: 317032

Sub Alias Name: POLYCHLORINATED BIPHENYLs

Substance Alias ID: 317033

Sampling Result ID:

Sub Alias Name: POLYCHLOROBIPHENYL 349846

Feature Id: 0 Hazard Release Id: 387485 Medium: 703 Substance Abbrev.: 0 Unit Code: 7 Observation: True Owner Operator: False Lab Data: True Sample Depth: 6 ft bgs 04/27/1999 Start Date: End Date: Not reported Min Concentration: Not reported

Max Concentration: .14

Sample Comment: 0.140 ppm Total PCBs detected in soils at 1 ft bgs beneath piping Map ID MAP FINDINGS
Direction

Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

feeding waste oil tank (4/27/99). 0.09 ppm Total PCBs detected in soils at groundwater interface (6 ft bgs) beneath south end of waste

oil tank (4/27/99).

Last Update By: SFORTUN
Update Date: 02/12/2010
Decode for MediumID: Soil

Narrative:

NARR ID: 5752003

NARR Code: Site Contacts
Created By: SFORTUN
Created Date: 02/17/2010

Updated By: MPUGH
Updated Date: 10/10/2011

Decode for NarcdID: Site Contacts

NARR Comments: (2/17/10, smf) Current site contact is Fritz Skirvin (in

Salem)(503-581-9372)(cell: 971-218-3684), who has been providing Joe Perrigo with technical advice. 10/10/11 MTPugh Karen Garnes Environmental Program Director Lakeside Industries, Inc. 6505 226th Place S.E. - Suite 200 Issaquah, WA, 98027 Phone: (425) 313-2660

Cell: (425) 864-5081 karen.garnes@lakesideind.com

NARR ID: 5739458

NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002

Updated By: SFORTUN
Updated Date: 02/17/2010
Decode for NarcdID: Contamination

NARR Comments: (3/21/00 JMW/SAP) Complaint of ongoing releases/contamination of

diesel fuel soaked into ground in their yard. (2/17/10 smf) Surface water in a small retention pond at the site was found to be contaminated with 1- to 2-ppm diesel fuel and oil in 1999. The site's shallow groundwater (about 8-feet bgs) has been contaminated with PCE, oil, diesel fuel, and lower concentrations of TCE, 1,1,1-TCA, PAHs, dichlorobenzenes, trichlorobenzene, and trimethylbenzenes. The PCE is suspected to have been released to shallow groundwater beneath the site's shop structure via a crack or break in an elbow to a 1-inch diameter PVC drain pipe that connected a drain pan in the shop's floor to a 375-gallon waste oil tank located along the shop's north exterior wall. The PCE release was suspected to have occurred when ODOT may have discharged 4- to 5-gallons of spent PCE to the floor drain in the early 1980's. ODOT used the PCE for determining petroleum content of the site's asphalt product. Very low concentrations of PCBs were also encountered in petroleum-contaminated soils near the waste oil tank's vent pipe,

beginning at 1-foot bgs, and extending to soil/groundwater interface. The dichloro- and trichlorobenzenes were encountered through a pushprobe boring located 19-feet east of the shop structure, near the location of the shop's drainfield.

NARR ID: 5752004

NARR Code: Data Sources

Created By: SFORTUN

Created Date: 02/17/2010

Updated By: SFORTUN

Updated Date: 04/01/2010

Decode for NarcdID: Data Sources

Direction Distance Elevation

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

NARR Comments: LUST File #04-99-0511. Bayview Transit Mix Facility, Multiple

Underground Storage Tank Decommissioning and Site Cleanup Activities Report, LUST Site #04-99-0511, EEM Project #99-16, prepared for Joe Perrigo, J-J Perrigo, Inc., by Evergreen Environmental Management, Inc., October 21, 1999. Letter Report, RE: LUST File #04-99-0511, Bayview Transit Mix Facility, Seaside, OR, to DEQ by Evergreen Environmental Management, Inc., November 30, 2000. Letter Report, to DEQ by CJE Consultants and Constructers, Inc., November 13, 2002. Bayview Transit Mix Facility, Corrective Action and Investigation Report, File #04-99-0511, prepared for Joe Perrigo, J-J Perrigo, Inc., by CJE Consultants and Constructers, Inc., March 2003. DEQ Memo, UST Cleanup Log #04-99-0511, to Bill Robertson (DEQ) from Laurey Cook (DEQ), May 12, 2006.

NARR ID: 5752001

NARR Code: General Site Description

Created By: SFORTUN
Created Date: 02/09/2010
Updated By: SFORTUN
Updated Date: 02/17/2010

Decode for NarcdID: General Site Description

NARR Comments: An asphalt batching plant and concrete batch plant located on an

8.22-acre tract of land comprised of 13 tax lots in Township 6 North / Range 10 West - Section 10: Tax Lots 1500, 1601, 1608, 1609, 1610, 1611, 1612, 1800, and 1900 of T6N/R10W-S10D, and Tax Lots 400, 500, 501, and 504 of T6N/R10W-S10CA. The asphalt batch plant operations are predominantly located on Tax Lots 1900 (1.71 -acres) and 1800 (2.51-acres). A shop/office building where PCE releases are suspected to have occurred is located on Tax Lot 1500 (0.56-acres). Two of the site's tax lots (400 and 500) that abut the eastern edge of US Hwy

101 have residential units.

NARR ID: 5752005

NARR Code: Hazardous Substance/Waste Types

Created By: SFORTUN
Created Date: 02/17/2010
Updated By: SFORTUN
Updated Date: 02/17/2010

Decode for NarcdID: Hazardous Substance/Waste Types

NARR Comments: Chlorinated solvents: predominantly Perchloroethylene, with lesser

concentrations of Trichloroethylene, 1,1,1-Trichloroethane,

1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and 1,2,4-Trichlorobenzene. Also, diesel fuel, waste oil, PAHs, and

traces of PCBs.

NARR ID: 5752009

NARR Code: Project Issues Summary

 Created By:
 SFORTUN

 Created Date:
 02/17/2010

 Updated By:
 MPUGH

 Updated Date:
 10/10/2011

Decode for NarcdID: Project Issues Summary

NARR Comments: The previous site owner suspects that PCE contamination in site

groundwater may be attributed to spent PCE that ODOT may have discharged to a leaking floor drain in the early 1980's. An 8-inch diameter, 10-foot deep groundwater recovery well was installed at the site in 2002, and up to 40,000-gallons of contaminated groundwater

Map ID MAP FINDINGS
Direction

Distance Elevation

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

was extracted in August through December 2002. However, considering the supposed age of the release, and the site's location on sea sand, PCE contamination could have travelled vertically too deep to be effectively extracted by a 10-foot deep recovery well. Additional assessment on the extent of TCE groundwater contamination is the primary work needed at the site. PCE contamination in site groundwater could represent a potential vapor intrusion threat for adjoining residences, a potential threat to drinking water use at nearby wells, or a potential ecological threat to fish and wildlife in nearby wetlands and streams. In December 2009, the City of Gearhart obtained a Water Right to develop groundwater in Gearhart for use as a Community Drinking Water Supply. Groundwater contamination at the Bayview Transit Mix site could adversely affect Gearhart's development of a Community Drinking Water Supply. Further investigation is needed to determine the full vertical and horizontal extent of the site's groundwater contamination.

NARR ID: 5752007

NARR Code: Land Use (Current/Reasonably Likely)

Created By: SFORTUN
Created Date: 02/17/2010
Updated By: SFORTUN
Updated Date: 02/17/2010

Decode for NarcdID: Land Use (Current/Reasonably Likely)

NARR Comments: Properties in the immediate site vicinity are a mix of residential,

commercial, public facilities (Seaside Municipal Airport; Clatsop County Developmental Training Center), and protected greenways /

wetlands (North Coast Land Conservancy).

NARR ID: 5739459

NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002

Updated By: SFORTUN
Updated Date: 02/17/2010
Decode for NarcdID: Site Location

NARR Comments: The majority of the 8.22-acre site is located between US Highway 101

(Park Drive) on the west, and the northern 1/5 of the Seaside Municipal Airport, on the east, within a small unincorporated pocket enveloped by the municipal boundaries of Gearhart and Seaside. The western 1/4 of the site abuts the eastern edge of US Hwy 101, and lies within the Gearhart municipal boundary. The site lies north of Airport Road, and south of the intersection of Oster Road and Railroad Avenue. The northern end of the Seaside Municipal Airport's runway lies about 165 feet east of the site. The Pacific Ocean lies about 0.75 mile to the west; Neacoxie Creek lies 0.30 mile to the west; Neawanna Creek lies 0.15 mile to the south-southwest; Thompson Creek lies 0.30 mile to the south; Mill Creek lies 0.20 mile to the east. NOTE 1: The site address of <quot>1399 Oster Road<quot> does not exist in Clatsop County property records. However, it has been used in recent ODOT contracts, and provides a reasonable approximation of the actual site location. The only known addresses associated with the Bayview Transit Mix property tract are 2861 and 2933 Highway 101 N, residential tax lots located immediately west of the site's asphalt plant. NOTE 2: A <quot>13th & Railroad Avenue, Seaside<quot> address often associated with this site (including historic Pollution Complaints, on waste disposal records, a DEQ Water

Map ID MAP FINDINGS
Direction

Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

Quality Permit, boring logs, and Oregon Business Registry records) is misleading as the City of Seaside's 13th Avenue lies more than 1.0-mile south of the site, and the City of Gearhart's 13th Street lies more than 1.25 mile northwest of the site. NOTE 3: A <quot>236 Railroad Avenue<quot> address has also been used for this site, although it also is misleading since, under Gearhart's current street address system, 236 Railroad Avenue (which does not exist in Clatsop County property records) should be located almost 1/4 mile north of the site.

NARR ID: 5752008

NARR Code: Project Activity Status

Created By: SFORTUN
Created Date: 02/17/2010
Updated By: MPUGH
Updated Date: 12/17/2012

Decode for NarcdID: Project Activity Status
NARR Comments: Further investigation is needed

Further investigation is needed to define the full vertical and horizontal extent of the site's groundwater contamination. MTPugh 12/17/12 DEQ approved a work plan for additional site investigation on December 4, 2012. Additional work consists of direct-push borings for groundwater sampling and vertical contaminant profiling in the water column, to assess the extent of residual TCE.

5739460 Remedial Action Not reported

Created By: Not reported
Created Date: 12/17/2002
Updated By: MPUGH
Updated Date: 03/12/2012
Decode for NarcdID: Remedial Action

NARR ID:

NARR Code:

NARR Comments: (3/21/00 MTP/SAP) Referred to SA from Spills Program (from anonymous

complaint), August 1996. Site Assessment will pursue future complaints or additional information. (1/20/10 smf) Site referred again to Site Assessment on 1/20/10 by DEQ LUST Program. 2/17/10 smf) A 375-gallon waste oil tank and petroleum-contaminated soils, located along the north exterior wall of the site's shop structure, were excavated to a depth of 6-feet bgs in April-July 1999. In July 1999, petroleum-contaminated soils beneath the shop's floor drain were removed to a depth of 3.9 feet bgs. The excavation pit was enlarged to 11-foot by 12 -foot by 13-foot deep in July 2002, and an 8-inch diameter, 10-foot deep, PVC groundwater extraction well was constructed in the shop's excavation pit in August 2002. Small pockets of petroleum-contaminated soils were left in place beneath the shop floor both adjacent to the former waste oil UST location. and at the floor drain location. Up to 40,000-gallons of PCE-contaminated groundwater was pumped from the recovery well between August and December 2002. The groundwater was containerized, air-sparged on-site, then trucked to the Seaside Wastewater Treatment Plant for disposal. MTPugh 3/12/12 DEQ reviewed site information and identified additional work needed at the site. The additional work needed at the site involves the waste oil UST area. A significant release from the waste oil drain pan, located within the maintenance shop, and associated piping was documented. A substantial soil removal was conducted and appears successful in removing most of the

affected soil. Heavy oil concentrations as high as 14,000 mg/kg heavy oil remain in place, but appear to represent a small and localized

Map ID Direction Distance Elevation

Site

MAP FINDINGS

Database(s)

BAYVIEW TRANSIT MIX (Continued)

volume of soil. However, the release reached shallow groundwater, which appears to have a seasonal variation in depth of between 5 and 10 feet. Trichloroethene (TCE) was detected at a relatively high concentration of 2,192 ug/L (parts per billion) in an 8-inch extraction well installed in the waste oil tank cavity. Approximately 22,000 gallons of water were pumped from the well and taken to the local sewage treatment plant for disposal. After the groundwater removal the TCE concentration had been reduced to 23 ug/L. Low concentrations of petroleum-related compounds were detected in tank excavation water. While these reductions in TCE concentration are substantial, the residual concentration is above drinking water standards for TCE. This triggers the need to investigate the extent of contamination. The primary concern is that TCE, when in pure form, is heavy than water and can migrate vertically in the water column as well as laterally. DEQ is aware of the well use survey completed in November 2009 that showed none of the water supply wells in the surrounding area were being used for drinking water, although many had been installed for domestic use. However, there appears to be a beneficial use for irrigation in the vicinity of the site, and in at least one case, groundwater is used for a toilet. The City of Gearhart has installed eight water supply wells approximately 0.8 to 1 mile west-northwest of the Bayview plant, in a potential downgradient direction. Due to potential groundwater use in the area DEQ will require an investigation to determine the vertical extent of groundwater contamination at the site, and requests you prepare a work plan, for DEQ review, to address the scope of work presented below. Recommended Scope of Work The objective of additional investigation is to characterize the vertical extent of TCE in groundwater due to releases from the former waste oil tank. DEQ requests that three direct-push borings be completed in the drain pan excavation area. One boring should be advanced directly through the source area. The other two borings should be positioned in the inferred hydrogeologic downgradient direction from the former waste oil tank (i.e., south and west). A minimum of three discrete groundwater samples should be collected from each boring from temporary wells or wellpoints. Sample intervals should include the uppermost water table, and at least two other depth intervals (e.g., water table, 20 feet, 35 feet). A minimum of three groundwater samples will be collected from each boring for laboratory analysis using EPA Method 8260B.

NARR ID: 5752006
NARR Code: Site History
Created By: SFORTUN
Created Date: 02/17/2010
Updated By: SFORTUN
Updated Date: 02/17/2010
Decode for NarcdID: Site History

NARR Comments: James and Joe Perrigo began operating an asphalt batch plant and concrete batch plant at the site in 1970, as Bayview Transit Mix, Inc. The overall site may have largely been undeveloped prior to that time. In 1999, the site, company, and company name were sold to Timothy Lee and Henry Waggoner, who previously operated in Washington State, and briefly in Oregon as Lee Asphalt Oregon, Inc. James and Joe Perrigo continued to operate briefly at the site (1999-2000) as J.J. Perrigo, Inc.

EDR ID Number

EPA ID Number

S110280784

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Administrative Action:

Action ID: 9506

Region: Northwestern Region

Complete Date: 01/19/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/19/2010

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Site Investigation recommended (SI)

Further Action: High
Comments: Not reported

Action ID: 9519

Region: Northwestern Region

Complete Date: 09/26/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/07/2010

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: VCS Waiting List
Further Action: High
Comments: Not reported

Action ID: 9424

Region: Northwestern Region

Complete Date: 03/21/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508

Region: Northwestern Region

Complete Date: 03/21/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)

Further Action: Not reported Comments: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Action ID: 9440

Region: Northwestern Region

Complete Date: 02/13/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/10/2011

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Letter Agreement Further Action: 0

Comments: Not reported

Action ID: 9443

Region: Northwestern Region

Complete Date: 02/13/2013
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/11/2014

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: NO FURTHER STATE ACTION REQUIRED

Further Action: 0

Comments: Not reported

Operations:

Operation Id: 133750 Operation Status: Active

Common Name: Bayview Transit Mix

Yrs of Operation: approximately 1999 - Current

Comments: Lee Asphalt Oregon, Inc. acquired Bayview Transit Mix, Inc. in June

1999, and assumed the company name, Bayview Transit Mix, Inc.

Updated Date: 02/11/2010 **SFORTUN** Updated By: Active Decode for OpstatID: Operations SIC Id: 197002 SIC Code: 3273 Created By: Not reported 12/17/2002 Created Date: Operations SIC Id: 197003 SIC Code: 2952 Created By: Not reported

Created Date: 12/17/2002

Operation Id: 135596 Operation Status: Inactive

Common Name: Bayview Transit Mix, Inc.

Yrs of Operation: 1970-1999

Comments: Bayview Transit Mix, Inc. was operated by James P. Perrigo until June

1999, when Lee Asphaly Oregon, Inc. acquired the company and assumed

its name. James P. Perrigo then formed J.J. Perrigo, Inc., which

continued to operate at the location until 2000.

Updated Date: 02/16/2010 Updated By: SFORTUN Decode for OpstatID: Inactive

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Operation Id: 135597
Operation Status: Inactive
Common Name: J.J. Perrigo, Inc.
Yrs of Operation: 1999-2000

Comments: Formed by James P. and Joseph G. Perrigo when Lee Asphalt Oregon, Inc.

acquired Bayview Transit Mix, and assumed its name. J.J. Perrigo, Inc.

dissolved Nov. 2000. Also formed James Perrigo Construction,

Warrenton, OR, in April 2000 (active).

Updated Date: 02/17/2010 Updated By: SFORTUN Decode for OpstatID: Inactive

AST:

Facility ID: 6868

Name: BAYVIEW ASPHALT INC.
Address: 1399 OSTER RD RD
City,State,Zip: SEASIDE, OR 97138
Substance: ASPHALT CEMENT
Reporting Quantities: Not reported

Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: TIMOTHY 5037385466 Direct Site Phone: Report Class: Annual Report Year: 2021 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported

Nature of Business: Highway, Street, and Bridge Construction ,Asphalt Paving Mixture and

Block Manufacturing

No

NAICS Code: "237310, 324121"

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Maximum Daily Amount Units: gal Is Solid State: No Is Liquid State: Yes Is Gaseous State: No Is Combustible Dust: No Is Fire Hazard: No Is Sudden Release of Pressure Hazard: Nο Is Reactive Hazard: No Is Immediate Hazard: No Is Delayed Hazard: No Is Corrosive to Metal: No Is Flammable: Yes Is Gas Under Pressure: No Is Physical HNOC: No Is Emission of Gas With Water: No Is Organic Peroxide: Nο Is Oxidizer: No Is Pyrophoric liquid or solid: No

Is Pyrophoric Gas:

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: No Is Reproductive Toxicity: Nο Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: No Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name: BAYVIEW ASPHALT INC. Address: 1399 OSTER RD RD City, State, Zip: SEASIDE, OR 97138

Substance: CSS-1, CSS-1H, BL-HRT, MICROCOAT-L BLUE LINE TRANSPORATION CO

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2021 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status:

Nature of Business: Highway, Street, and Bridge Construction ,Asphalt Paving Mixture and

Block Manufacturing

NAICS Code: "237310, 324121"

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

BAYVIEW TRANSIT MIX (Continued)

S110280784

Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: No Is Health HNOC: Nο Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

BAYVIEW ASPHALT INC. Name: Address: 1399 OSTER RD RD City,State,Zip: SEASIDE, OR 97138 Substance: **DIESEL FUEL** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported Owner-Operator Name: **TIMOTHY** Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2021 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported

Nature of Business: Highway, Street, and Bridge Construction ,Asphalt Paving Mixture and

Block Manufacturing

NAICS Code: "237310, 324121"

Maximum Daily Amount Code: 21

5,000-9,999 Maximum Daily Amount Code Range:

Distance Elevation Site

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: No Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

BAYVIEW ASPHALT INC. Name: Address: 1399 OSTER RD RD City,State,Zip: GEARHART, OR 97138 Substance: **ASPHALT CEMENT** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name:

5037385466

No

Report Class: Annual(Revision)
Report Year: 2017
Is Poisonous Gas: No
Is Poisonous Material: No
Is Biological Hazard: No
Is Radioactive Material: No

Direct Site Phone:

Is Explosive:

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 30

Maximum Daily Amount Code Range: 10,000-49,999

Distance Elevation Site

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: No Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name:BAYVIEW ASPHALT INC.Address:1399 OSTER RD RDCity,State,Zip:GEARHART, OR 97138

Substance: **DIESEL FUEL** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual(Revision)

Report Year: 2017
Is Poisonous Gas: No
Is Poisonous Material: No
Is Biological Hazard: No
Is Radioactive Material: No
Is Explosive: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

Direction Distance Elevation

tion Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: No Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name: BAYVIEW ASPHALT INC.
Address: 1399 OSTER RD RD
City,State,Zip: SEASIDE, OR 97138
Substance: ASPHALT CEMENT
Reporting Quantities: Not reported

Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2018 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

No

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Distance Elevation Site

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: No Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name: BAYVIEW ASPHALT INC.
Address: 1399 OSTER RD RD
City,State,Zip: SEASIDE, OR 97138
Substance: CSS-1H

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2018 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

Distance Elevation Site

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

BAYVIEW ASPHALT INC. Name: Address: 1399 OSTER RD RD City,State,Zip: SEASIDE, OR 97138 Substance: **DIESEL FUEL** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2018 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

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

BAYVIEW TRANSIT MIX (Continued)

S110280784

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: No Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name: BAYVIEW ASPHALT INC.
Address: 1399 OSTER RD RD
City,State,Zip: SEASIDE, OR 97138
Substance: ASPHALT CEMENT
Reporting Quantities: Not reported

Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2019 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

No

Maximum Daily Amount Code: 30

Is Explosive:

Maximum Daily Amount Code Range: 10,000-49,999

Distance Elevation Site

Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: No Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

Name: BAYVIEW ASPHALT INC.
Address: 1399 OSTER RD RD
City,State,Zip: SEASIDE, OR 97138
Substance: CSS-1H

Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2019 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: Yes Is Carcinogenicity: Yes Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

Facility ID: 6868

BAYVIEW ASPHALT INC. Name: Address: 1399 OSTER RD RD City,State,Zip: SEASIDE, OR 97138 Substance: **DIESEL FUEL** Reporting Quantities: Not reported Quantity Units: Not reported Physical State: Not reported Storage 1: Above ground tank Storage 2: Not reported TIMOTHY Owner-Operator Name: Direct Site Phone: 5037385466 Report Class: Annual Report Year: 2019 Is Poisonous Gas: No Is Poisonous Material: No Is Biological Hazard: No Is Radioactive Material: No Is Explosive: No

Status: Not reported
Nature of Business: ASPHALT PAVING
NAICS Code: Not reported

Maximum Daily Amount Code: 21

Maximum Daily Amount Code Range: 5,000-9,999

Direction Distance

Elevation Site Database(s) EPA ID Number

BAYVIEW TRANSIT MIX (Continued)

S110280784

EDR ID Number

Is Pyrophoric liquid or solid: No Is Pyrophoric Gas: No Is Self-Heating: No Is Self-Reacting: No Is Acute Toxicity: No Is Aspiration Hazard: No Is Carcinogenicity: No Is Germ Cell Mutagenicity: Nο Is Health HNOC: No Is Reproductive Toxicity: No Is Respiratory or Skin Sensitization: Yes Is Serious Eye Damage or Eye Irritation: Yes Is Simple Asphyxiate: No Is Skin Corrosion or Irritation: Yes Is Specific Target Organ Toxicity: No

<u>Click this hyperlink</u> while viewing on your computer to access 12 additional OR AST: record(s) in the EDR Site Report.

VCS:

Name: BAYVIEW TRANSIT MIX Address: 1399 OSTER RD. City,State,Zip: GEARHART, OR 97138

ECS Site ID: 2541

 Facility Size:
 8.22 acres, total

 Action:
 VCS Waiting List

 Start Date:
 04/09/2010

 End Date:
 09/26/2011

 Program:
 VCS

 Latitude:
 46.0176

 Longitude:
 -123.9098

Name: BAYVIEW TRANSIT MIX
Address: 1399 OSTER RD.
City,State,Zip: GEARHART, OR 97138
ECS Site ID: 2541

Facility Size: 8.22 acres, total

Action: NO FURTHER STATE ACTION REQUIRED

 Start Date:
 02/13/2013

 End Date:
 02/13/2013

 Program:
 VCP

 Latitude:
 46.0176

 Longitude:
 -123.9098

Name: BAYVIEW TRANSIT MIX
Address: 1399 OSTER RD.
City,State,Zip: GEARHART, OR 97138

ECS Site ID: 2541

 Facility Size:
 8.22 acres, total

 Action:
 Letter Agreement

 Start Date:
 10/03/2011

 End Date:
 02/13/2013

 Program:
 VCS

 Latitude:
 46.0176

 Longitude:
 -123.9098

Direction Distance

Elevation Site Database(s) EPA ID Number

18 CURS SEASIDE AHOT ECSI S107594488
East 1750 LEWIS AND CLARK ROAD SPILLS N/A

1/2-1 SEASIDE, OR 97138

0.595 mi. 3143 ft.

Relative: ECSI:
Higher Name: CURS SEASIDE AHOT

Actual: Address: 1750 LEWIS AND CLARK ROAD

28 ft. City,State,Zip: SEASIDE, OR 97138

 State ID Number:
 4628

 Brown ID:
 0

 Study Area:
 False

 Region ID:
 2

 Legislatve ID:
 0

 Investigation:
 Suspect

 FACA ID:
 96585

 Further Action:
 0

Lat/Long (dms): 46 0 38.20 / -123 54 34.20

County Code: 4.00

Score Value: Not reported Cerclis ID: Not reported

Township Coord.: 6.00
Township Zone: N
Range Coord: 10.00
Range Zone: W
Section Coord: 10

Not reported Qtr Section: Tax Lots: Not reported Size: Not reported NPL: False Orphan: False Updated By: **GWISTAR** Update Date: 05/04/2006 Created Date: 05/03/2006 Decode For RegionID: Northwest Region Decode For BrownID: Not reported Decode For Furtheract: Not reported Decode For Investstat: Suspect Decode For Legislative: Not reported

Narrative:

NARR ID: 5748102

NARR Code: Hazardous Substance/Waste Types

Created By: ADENNIS
Created Date: 05/03/2006
Updated By: ADENNIS
Updated Date: 05/03/2006

Decode for NarcdID: Hazardous Substance/Waste Types

NARR Comments: Home heating oil

NARR ID: 5748103

NARR Code: Manner of Release

Created By: ADENNIS
Created Date: 05/03/2006
Updated By: ADENNIS
Updated Date: 05/03/2006
Decode for NarcdID: Manner of Release

NARR Comments: On February 28, 2006 an above-ground heating oil tank tipped over and

spilled approximately 250 gallons to the ground

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

CURS SEASIDE AHOT (Continued)

S107594488

EDR ID Number

NARR ID: 5748105

NARR Code: Media Contamination

Created By: ADENNIS
Created Date: 05/03/2006
Updated By: ADENNIS
Updated Date: 05/03/2006

Decode for NarcdID: Media Contamination

NARR Comments: Soil and Groundwater

NARR ID: 5748104

NARR Code: Health Threats

Created By: ADENNIS

Created Date: 05/03/2006

Updated By: ADENNIS

Updated Date: 05/03/2006

Decode for NarcdID: Health Threats

NARR Comments: Heating oil has impacted groundwater and soil under the house also

Neawanna Creek is approximately 150-feet from the spill location.

Administrative Action:

Action ID: 9424
Region: Not reported
Complete Date: 05/03/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/03/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Not reported Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9469

Region: Northwestern Region

Complete Date: 03/24/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/03/2006

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: REMEDIAL ACTION Further Action: 0

Comments: Not reported

Action ID: 9413

Region: Northwestern Region

Complete Date: 03/28/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/28/2014

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Direction Distance

Elevation Site Database(s) EPA ID Number

CURS SEASIDE AHOT (Continued)

S107594488

EDR ID Number

Action: Closeout activities on completed project

Further Action: 0

Comments: Not reported

OR SPILLS:

Name: Not reported

Address: 1750 LEWIS AND CLARK ROAD

City, State, Zip: SEASIDE, OR 97138

Facility ID: 2006-0647 Incident Status: Archive

Material: Industrial or home heating fuel oil

Quantity: 250
Unit of Measure: Gallons
Release Date: 02/28/2006

Description: Up to 250 gallon spill from AHOT; unknown timeframe or volume.

Lat/Long: 46.0101 / -123.9031 Source: Heating Oil AST

Media: On pavement/asphalt - not direct on soil

Responsible Company: Not reported

Responsible Address: 1750 Lewis And Clark Rd Responsible City, St, Zip: Seaside, OR 97138-7927

Unknown Quantity NR delease settled Maximum Potential NO turantity ted Quantity Recovered to treported

Name: Not reported

Address: 1750 LEWIS AND CLARK ROAD

City,State,Zip: SEASIDE, OR 97138

Facility ID: 2006-0647 Incident Status: Archive

Material: Industrial or home heating fuel oil

Quantity: 250
Unit of Measure: Gallons
Release Date: 02/28/2006

Description: Up to 250 gallon spill from AHOT; unknown timeframe or volume.

Lat/Long: 46.0101 / -123.9031 Source: Heating Oil AST

Media: Coding for the PS/BC Oil Spill Database

Responsible Company: Not reported

Responsible Address: 1750 Lewis And Clark Rd Responsible City, St, Zip: Seaside, OR 97138-7927

Unknown QuantityNRdelecapserded Maximum PotentialNQturampitityted Quantity Recoveredot reported

Name: Not reported

Address: 1750 LEWIS AND CLARK ROAD

City, State, Zip: SEASIDE, OR 97138

Facility ID: 2006-0647 Incident Status: Archive

Material: Industrial or home heating fuel oil

Quantity: 250 Unit of Measure: Gallons Release Date: 02/28/2006

Description: Up to 250 gallon spill from AHOT; unknown timeframe or volume.

Lat/Long: 46.0101 / -123.9031 Source: Heating Oil AST

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

CURS SEASIDE AHOT (Continued)

S107594488

Media: Non-saturated soil, rock, etc.

Responsible Company: Not reported

Responsible Address: 1750 Lewis And Clark Rd Responsible City, St, Zip: Seaside, OR 97138-7927

Unknown Quantity NR del expreseded Maximum PotentialNQturæmptictryted Quantity Recovered to reported

MIZAR DISTRIBUTORS ECSI S129397584 19 N/A

MIZAR DISTRIBUTORS

1200 G ST North

SEASIDE, OR 97138 1/2-1

0.646 mi. 3412 ft.

Relative: ECSI: Higher Name:

Address: 1200 G ST Actual:

19 ft.

City, State, Zip: SEASIDE, OR 97138 State ID Number: 2564

Brown ID: 0 Study Area: False Region ID: Not reported Legislatve ID:

Investigation: Suspect FACA ID: 23447 Further Action:

Lat/Long (dms): 46 1 8.00 / -123 54 40.00

County Code: 4.00 Score Value: 0 Cerclis ID:

Not reported Township Coord.: Not reported Township Zone: Not reported Range Coord: Not reported Range Zone: Not reported Section Coord: Not reported Qtr Section: Not reported Tax Lots: Not reported Size: Not reported NPL: False Orphan: False Updated By: **KDAUGHE** Update Date: 12/19/2022 Created Date: 04/19/2000 Decode For RegionID: Not reported Decode For BrownID: Not reported Decode For Furtheract: Not reported Decode For Investstat: Suspect Decode For Legislative: Not reported

Alias Name: Max Snyder Inc.

Narrative:

5739568 NARR ID: NARR Code: Contamination Created By: Not reported Created Date: 12/17/2002 Updated By: Not reported **Updated Date:** 12/17/2002 Decode for NarcdID: Contamination

Direction Distance

Elevation Site Database(s) EPA ID Number

MIZAR DISTRIBUTORS (Continued)

S129397584

EDR ID Number

NARR Comments: (4/18/00 JMW/SRP) No gasoline contamination was observed during

decommissioning and no gasoline was detected in confirmatory soil

samples.

NARR ID: 5739569

NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002

Updated By: KDAUGHE
Updated Date: 12/19/2022

Decode for NarcdID: Remedial Action

NARR Comments: (4/18/00 MTP/SAP) Referred from UST Program, October 1996. DEQ

reviewed information submitted concerning UST decommissioning and cleanup. UST Program determined NFA. Relatively low levels of TPH in soil. Groundwater impact is not known. Priority 2 for further follow

up.

Administrative Action:

Action ID: 9424

Region: Northwestern Region

Complete Date: 04/19/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508

Region: Northwestern Region

Complete Date: 04/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Operations:

Operation Id: 133772
Operation Status: Inactive
Common Name: Max Snyder Inc.

Yrs of Operation: approx 1970 - December 1980

Comments: Not reported Updated Date: 04/19/2000

Updated By: jmw Decode for OpstatID: Inactive

Operation Id: 133773 Operation Status: Inactive

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

MIZAR DISTRIBUTORS (Continued)

S129397584

S105614033

N/A

ECSI

VCP

Common Name: Mizar Distributors

Yrs of Operation: approx. 1980 - December 1995

Comments: Not reported Updated Date: 04/19/2000 Updated By: jmw Decode for OpstatID: Inactive Operations SIC Id: 197025 SIC Code: 5182 Created By: Not reported 12/17/2002 Created Date:

20 SEASIDE LLC

SSW HIGHWAY 101 AND NINTH ST

1/2-1 SEASIDE, OR 97138

0.667 mi. 3523 ft.

Relative: ECSI:
Higher Name: SEASIDE LLC

Actual: Address: HIGHWAY 101 AND NINTH ST

5 ft. City,State,Zip: SEASIDE, OR 97138

 State ID Number:
 1849

 Brown ID:
 0

 Study Area:
 False

 Region ID:
 2

 Legislatve ID:
 0

Investigation: No Further Action

FACA ID: 40393 Further Action: 0

Lat/Long (dms): 45 59 59.00 / -123 55 8.00

County Code: 4.00

Score Value: Not reported Cerclis ID: Not reported Township Coord.: 6.00 Township Zone: N

Township Zone: N
Range Coord: 10.00
Range Zone: W
Section Coord: 21
Qtr Section: Not reported

Tax Lots: Not reported Size: Not reported NPL: False False Orphan: Updated By: **GWISTAR** Update Date: 02/21/2008 Created Date: 04/08/1996 Decode For RegionID: Northwest Region Decode For BrownID: Not reported Not reported Decode For Furtheract: Decode For Investstat: No Further Action Decode For Legislative: Not reported

Hazardous Release:

Substance ID.: 121059
Haz Release ID: 380514
Qty Released: Not reported
Date Released: Not reported
Update Date: 07/17/1996

Direction Distance Elevation

evation Site Database(s) EPA ID Number

SEASIDE LLC (Continued)

S105614033

EDR ID Number

Update By: Not reported
Substance Code: 1336-36-3
Substance Name: PCBs
Substance Abbrev.: Not reported
Substance Category ID: 8558

Substance Category: PCB Substances for the OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8558

Substance Category: PCB Substances for the OSPIRG Report

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317029

Sub Alias Name: BIPHENYL, POLYCHLORO-

Substance Alias ID: 317030

Sub Alias Name: CHLORINATED BIPHENYL

Substance Alias ID: 317031

Sub Alias Name: CHLOROBIPHENYL

Substance Alias ID: 317032

Sub Alias Name: POLYCHLORINATED BIPHENYLs

Substance Alias ID: 317033

Sub Alias Name: POLYCHLOROBIPHENYL

Sampling Result ID: 342210 Feature Id: Not reported Hazard Release Id: 380514 Medium: 700 Substance Abbrev.: Not reported Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported

Sample Depth: Not reported
Start Date: 12/01/1995
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 224 mg/kg
Last Update By: jmd
Update Date: 07/17/1996
Decode for MediumID: Other

Substance ID.: 122012
Haz Release ID: 380515
Qty Released: Not reported
Date Released: Not reported
Update Date: 07/17/1996
Update By: Not reported
Substance Code: ECD275

Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)

Substance Abbrev.: Not reported Substance Category ID: 8540

Substance Category: Petroleum Related Releases for OSPIRG Report

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SEASIDE LLC (Continued)

S105614033

Substance Category ID: 8540

Petroleum Related Releases for OSPIRG Report Substance Category:

Category Level: Not reported Created By: Not reported Created Date: 12/17/2002

Sampling Result ID: 342211 Feature Id: Not reported 380515 Hazard Release Id: 703 Medium: Substance Abbrev.: Not reported

Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported Start Date: 12/01/1995 Not reported End Date: Min Concentration: Not reported Max Concentration: Not reported

320 mg/kg (soil outside of former service center). Sample Comment:

Last Update By: jmw 01/04/2002 Update Date: Decode for MediumID: Soil Sampling Result ID: 342212 Feature Id: Not reported 380515 Hazard Release Id: Medium: 700 Substance Abbrev.: Not reported Unit Code: Not reported

Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported

12/01/1995 Start Date: End Date: Not reported Not reported Min Concentration: Not reported Max Concentration: Sample Comment: 10,200 mg/kg Last Update By: jmd

07/17/1996 Update Date: Decode for MediumID: Other Sampling Result ID: 338965 Feature Id: Not reported 380515 Hazard Release Id: 698 Medium:

Substance Abbrev.: Not reported Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True

Not reported Sample Depth: Start Date: 05/26/1996 Not reported End Date: Min Concentration: Not reported Max Concentration: Not reported

Sample Comment: 1.7 mg/L (geoprobe sample)

Last Update By: jmw

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

SEASIDE LLC (Continued)

S105614033

Update Date: 01/04/2002 Decode for MediumID: Groundwater

Substance ID.: 121829 Haz Release ID: 380119 Qty Released: Not reported Date Released: Not reported Update Date: 04/01/2002 Update By: Not reported Substance Code: 86-73-7 **FLUORENE** Substance Name: Substance Abbrev.: Not reported Substance Category ID: 8489

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 8489 Substance Category ID:

Substance Category: Semi-volatiles Category Level: Not reported Created By: Not reported Created Date: 12/17/2002 Substance Alias ID: 317663

Sub Alias Name: BIPHENYLENEMETHANE,o-

Substance Alias ID: 317664

Sub Alias Name: **DIPHENYLENEMETHANE**

Substance Alias ID: 317665

Sub Alias Name: METHYLENEBIPHENYL,2,2'-

Sampling Result ID: 338966 Feature Id: Not reported 380119 Hazard Release Id: Medium: 698 Substance Abbrev.: Not reported

Unit Code: Not reported Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported 05/28/1996 Start Date: End Date: Not reported Min Concentration: Not reported Not reported Max Concentration: Sample Comment: 0.2 ug/L Last Update By: jmw 01/04/2002 Update Date: Decode for MediumID: Groundwater

Substance ID.: 121824 Haz Release ID: 380120 Qty Released: Not reported Date Released: Not reported Update Date: 04/01/2002 Update By: Not reported Substance Code: 85-01-8

PHENANTHRENE Substance Name: Substance Abbrev.: Not reported Substance Alias ID: 317648

Direction Distance

Elevation Site **EPA ID Number** Database(s)

SEASIDE LLC (Continued)

S105614033

EDR ID Number

Sub Alias Name: **PHENATHRIN**

Sampling Result ID: 338967 Feature Id: Not reported Hazard Release Id: 380120 Medium: 698 Substance Abbrev.: Not reported Not reported

Unit Code: Observation: False Owner Operator: False Lab Data: True Sample Depth: Not reported 05/28/1996 Start Date: End Date: Not reported

Min Concentration: Not reported Max Concentration: Not reported

Sample Comment: 0.97 ug/L (geoprobe sample)

Last Update By: imw Update Date: 01/04/2002 Decode for MediumID: Groundwater

Narrative:

5735806 NARR ID:

NARR Code: Manner of Release Created By: Not reported Created Date: 12/17/2002 Updated By: Not reported 12/17/2002 **Updated Date:** Decode for NarcdID: Manner of Release

NARR Comments: In September 1995, a former PP&L employee alleged that while working

at the former Seaside Service Center, he disposed of various unusable

electrical equipment, including PCB-containing

transformers/capacitors, in the basement of the service center. The employee also alleged that the basement debris was left in place during demolition. Subsequent excavation in the basement revealed soil contaminated with oil (containing no PCBs). The source of this

contaminated soil is unknown.

NARR ID: 5735807 NARR Code: Remedial Action Created By: Not reported Created Date: 12/17/2002 Updated By: Not reported **Updated Date:** 12/17/2002 Decode for NarcdID: Remedial Action

NARR Comments: Between October 2 and December 15, 1995, PacifiCorp excavated the

> former service center basement, its contents and an additional 75 cubic yards of oil contaminated soil outside of the basement. The debris was found to contain PCBs and petroleum hydrocarbons. No evidence of fluid-filled electrical equipment, such as capacitors or transformers, was reported in the debris by PacifiCorp. The PCB-contaminated debris was disposed of at Envirosafe Services of Idaho, Inc., a hazardous-waste facility in Grandview, Idaho. The debris was contained within the concrete floor and walls of the basement. PacifiCorp also removed approximately 95 cubic yards of non-PCB, oil-contaminated soil outside of the basement structure. Verification soil samples from below the basement, after the basement and exterior soil were removed, contained no PCBs, but did contain 320 mg/kg oil. Seaside LLC, a company that was attempting to develop

Map ID
Direction
Distance

Elevation

Site

MAP FINDINGS

Database(s)

S105614033

EDR ID Number

EPA ID Number

SEASIDE LLC (Continued)

the service center site, joined VCP (April 1996) and requested a review of PCB cleanup documentation. VCP concluded that the removal had successfully cleaned up the PCB debris. However, VCP requested screening-level groundwater testing for volatile and semivolatile organic compounds (low priority 5/3/96 MJM/VCP). This testing was requested because: 1) TPH detected beneath the basement was not identified as to petroleum type; 2) groundwater was anticipated to be very shallow; and 3) little site history was available. This testing was reportedly performed in June 1996, but results were not submitted to DEQ. Based on the reported lack of contamination in the results, U.S. Bank apparently released construction funding for a pending development. Once Seaside LLC obtained a construction loan from U.S. Bank, it dropped out of the VCP and did not pursue an NFA determination. (11/21/01 MJM/VCP) In July 2001, Seaside LLC entered the VCP Independent Cleanup Pathway (ICP) Program. Seaside LLC provided a site PA, additional soil and groundwater environmental data, and requested a NFA for the site. After review of the site information, DEQ requested additional soil and groundwater characterization in specific areas. Seaside LLC performed the additional testing, which is summarized in an August 2001 report prepared by AMEC environmental. Based on the results in the August 2001 report, DEQ is proposing to approve the 1995 soil cleanup performed by PacifiCorp and issue an NFA for the site. Public notice and opportunity to comment on the proposed DEQ cleanup approval is scheduled for December 2001. (1/3/02 MJM/VCP) In July 2001, Seaside LLC re-entered the Voluntary Cleanup Program to obtain a no further action determination for the Seaside Factory Outlet Mall site. At this time, Seaside LLC provided DEQ with a copy of a Phase I Environmental Site Assessment and the results of site investigation work conducted at the site. DEQ review identified five areas where DEQ believed additional site investigation (i.e., soil and/or groundwater sampling) was necessary. After discussing a sampling and analysis plan with DEQ, Seaside LLC performed the requested additional investigations in the identified areas. The results of the investigations are presented in AMEC's September 2001 site closure report. Hazardous substances were not detected in the areas investigated. DEQ provided public notice and opportunity to comment in December 2001 of its intent to approve Pacificorp's 1995 cleanup of petroleum contaminated soil. No comments were received. Based on the findings summarized in the closure report and the expectation that the site will remain commercial without groundwater development, DEQ concludes that the limited quantity of hazardous substances detected in site soil and groundwater pose no unacceptable risks to humans or ecological receptors as defined in OAR 340-122-115(1). Based on this conclusion, DEQ determined that no further action is required to address hazardous substances at the facility under Oregon Environmental Cleanup Law, ORS 465.200 et seq., unless additional information becomes available that indicates further investigation is warranted.

Administrative Action:

Action ID: 9424

Region: Northwestern Region

Complete Date: Not reported Rank Value: 0

Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE LLC (Continued)

Decode for RegionID: Northwest Region

Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519

Region: Northwestern Region

Complete Date: 04/11/1996 Rank Value: 0

Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9442

Region: Northwestern Region

Complete Date: 07/16/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9425

Region: Northwestern Region

Complete Date: 07/16/1996
Rank Value: 0
Cleanup Flag: False

Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: SITE EVALUATION Further Action: 0

Comments: Not reported

Action ID: 9437

Region: Northwestern Region

Complete Date: 05/03/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

EDR ID Number

S105614033

MAP FINDINGS Map ID

Direction Distance

Elevation Site Database(s) **EPA ID Number**

SEASIDE LLC (Continued)

Category: Listing Action

Action Code Flag: False

Action: Listing Review completed

Further Action:

Comments: Not reported

9449 Action ID:

Region: Northwestern Region

Complete Date: 05/03/1996 Rank Value:

Cleanup Flag: False Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Listing Action Action Code Flag: False

Insufficient information to list Action: Further Action: Not reported Comments: Not reported

Action ID: 9435

Region: Northwestern Region

Complete Date: 01/03/2002 Rank Value: 0 Cleanup Flag: False

Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Remedial Action Category:

Action Code Flag: False

Action: Independent Cleanup Program Further Action: Not reported Comments: Not reported

Action ID: 9443

Northwestern Region Region: Complete Date: 01/02/2002

Rank Value: Cleanup Flag: False Created Date: 12/17/2002

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

NO FURTHER STATE ACTION REQUIRED Action:

Further Action:

Comments: Not reported

Action ID: 9510

Northwestern Region Region:

07/16/1996 Complete Date: Rank Value: Cleanup Flag: False 12/17/2002 Created Date:

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action **EDR ID Number**

S105614033

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE LLC (Continued) S105614033

Action Code Flag: False

Action: State Expanded Preliminary Assessment recommended (XPA)

Further Action: Low Comments: Not reported

VCS:

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City, State, Zip: SEASIDE, OR 97138

ECS Site ID: 1849

Facility Size: Not reported
Action: SITE EVALUATION

 Start Date:
 05/03/1996

 End Date:
 07/16/1996

 Program:
 VCS

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849
Facility Size: Not reported

Action: Listing Review completed

 Start Date:
 05/02/1996

 End Date:
 05/03/1996

 Program:
 VCS

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849

Facility Size: Not reported

Action: State Expanded Preliminary Assessment recommended (XPA)

 Start Date:
 07/16/1996

 End Date:
 07/16/1996

 Program:
 VCS

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849
Facility Size: Not reported

Action: Insufficient information to list

 Start Date:
 05/03/1996

 End Date:
 05/03/1996

 Program:
 VCS

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

SEASIDE LLC (Continued)

S105614033

EDR ID Number

ECS Site ID: 1849
Facility Size: Not reported

Action: NO FURTHER STATE ACTION REQUIRED

 Start Date:
 01/02/2002

 End Date:
 01/02/2002

 Program:
 ICP

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849 Facility Size: Not reported VCS Waiting List Action: 04/08/1996 Start Date: End Date: 04/11/1996 VCS Program: Latitude: 45.9997 -123.9188 Longitude:

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849
Facility Size: Not reported

Action: Site added to database

 Start Date:
 04/08/1996

 End Date:
 Not reported

 Program:
 VCS

 Latitude:
 45.9997

 Longitude:
 -123.9188

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City,State,Zip: SEASIDE, OR 97138

ECS Site ID: 1849 Facility Size: Not reported **NEGOTIATIONS** Action: Start Date: 04/12/1996 End Date: 07/16/1996 Program: VCS Latitude: 45.9997 -123.9188 Longitude:

Name: SEASIDE LLC

Address: HIGHWAY 101 AND NINTH ST

City, State, Zip: SEASIDE, OR 97138

ECS Site ID: 1849

Facility Size: Not reported

Action: Independent Cleanup Program

 Start Date:
 07/17/2001

 End Date:
 01/03/2002

 Program:
 VCP

 Latitude:
 45.9997

 Longitude:
 -123.9188

Direction Distance

Elevation Site Database(s) EPA ID Number

21 WITTE ESTATE - AUTO WRECKER ECSI \$106980863
NE 1701 OSTER RD. N/A

NE 1701 OSTER RD. 1/2-1 GEARHART, OR 97138

0.773 mi. 4083 ft.

Relative: ECSI: Higher Nam

Name: WITTE ESTATE - AUTO WRECKER

 Actual:
 Address:
 1701 OSTER RD.

 25 ft.
 City,State,Zip:
 GEARHART, OR 97138

State ID Number: 3825 Brown ID: 0 False Study Area: Region ID: 2 Legislatve ID: 0 Investigation: Suspect FACA ID: 48584 Further Action: 258

Lat/Long (dms): 46 1 7.70 / -123 54 20.90

County Code: 4.00
Score Value: Not reported
Cerclis ID: Not reported

Township Coord.: 6.00
Township Zone: N
Range Coord: 10.00
Range Zone: W
Section Coord: 10

Qtr Section: Not reported

Tax Lots: 400 Size: Not reported NPL: False Orphan: False Updated By: **CHARMAN** Update Date: 12/05/2006 Created Date: 03/18/2003 Decode For RegionID: Northwest Region Decode For BrownID: Not reported Decode For Furtheract: Medium Decode For Investstat: Suspect Decode For Legislative: Not reported

Narrative:

NARR ID: 5743176
NARR Code: Contamination
Created By: JWAGGY
Created Date: 03/18/2003
Updated By: CHARMAN
Updated Date: 12/05/2006
Decode for NarcdID: Contamination

NARR Comments: (3/12/03 CJB/SAS) Alleged release of auto fluids to the ground

surface in a wetland. Complainant reported autos removed in late January 2003, contaminated soils covered with several truck loads of sand. Wrecked auto salvage now present again on the site. DEQ Water Quality staff visited the site on several occasions beginning January 2003, and have not observed any issues at the site. (12/5/06 CWH/SAS) During DEQ's October 2005 site visit, small areas of oil staining and a strong diesel odor in one area were detected (see Images for

photographs).

NARR ID: 5743173

EDR ID Number

Direction Distance

Elevation Site Database(s) EPA ID Number

WITTE ESTATE - AUTO WRECKER (Continued)

S106980863

EDR ID Number

NARR Code: Site Location
Created By: JWAGGY
Created Date: 03/18/2003
Updated By: GWISTAR
Updated Date: 06/11/2003
Decode for NarcdID: Site Location

NARR Comments: Easternmost end of Oster Road, just beyond the Gearhart city limits.

NARR ID: 5743175

NARR Code: Manner of Release

Created By: JWAGGY
Created Date: 03/18/2003
Updated By: GWISTAR
Updated Date: 06/11/2003
Decode for NarcdID: Manner of Release

NARR Comments: Alleged release on the property. Auto wrecker standard operating practice, spilling auto fluids that were subsequently buried in sand.

NARR ID: 5748773

NARR Code: Pathways Other Hazards

Created By: CHARMAN
Created Date: 12/05/2006
Updated By: CHARMAN
Updated Date: 12/05/2006

Decode for NarcdID: Pathways & Other Hazards

NARR Comments: This site is located away from any residential areas. This site is

located very close to extensive wetland areas to the west. Any site contamination would present a threat to wetland terrestrial and

aquatic species.

NARR ID: 5743178

NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 03/18/2003

Updated By: CHARMAN
Updated Date: 12/05/2006
Decode for NarcdID: Remedial Action

NARR Comments: (3/12/03 CJB/SAS) Referral from DEQ's Water Quality Program. Comment

regarding toxics concerns to be considered when implementing North Coast TMDL. Medium priority for a site evaluation recommended, due to nearby sensitive areas (wetlands and Necanicum River Estuary). (10/23/04 JMW/SAS) Water Quality Staff have conducted several site visits since January 2003. DEQ staff were unable to observe any issues on the subject property during site inspections. Water quality staff will continue to monitor this site in the future. (12/5/06 CWH/SAS) DEQ's Site Assessment (SA) staff visited the site in October of 2005. DEQ SA staff observed several conditions that present a potential risk of release to the environment - a large used oil tank sitting next to a drainage ditch; several small areas of oil-stained gravel; a slight sheen in a gravel area near the shop that also smelled like diesel; and a gravish sheen or coating on gravel throughout the area around the shop. DEQ suggested several options to the owner to sample some of the noted areas to determine if there were concentrations of contaminants that present a threat to human health or the environment. Owner considered some actions but did not perform any sampling to DEQ's knowledge.

Direction Distance

Elevation Site Database(s) EPA ID Number

WITTE ESTATE - AUTO WRECKER (Continued)

S106980863

EDR ID Number

NARR ID: 5743174

NARR Code: Site History
Created By: JWAGGY
Created Date: 03/18/2003

Updated By: JWAGGY
Updated Date: 03/18/2003

Decode for NarcdID: Site History

NARR Comments: Auto wrecking yard from 1997 to present.

Administrative Action:

Action ID: 9424
Region: Not reported
Complete Date: 03/18/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2003

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Not reported Category: Administrative Action

Action Code Flag: False

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508

Region: Northwestern Region

Complete Date: 03/18/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/18/2003

Decode for AgencyID: Department of Environmental Quality

Decode for RegionID: Northwest Region

Category: Remedial Action

Action Code Flag: False

Action: Site Screening recommended (EV)

Further Action: Medium
Comments: Not reported

Operations:

Operation Id: 134708 Operation Status: Active

Common Name: Witte Estate - Auto Wrecking Yard

Yrs of Operation: 1997 - Present
Comments: Not reported
Updated Date: 03/18/2003
Updated By: JWAGGY
Decode for OpstatID: Active

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

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2023 Source: EPA
Date Data Arrived at EDR: 05/02/2023 Telephone: N/A

Number of Days to Update: 15 Next Scheduled EDR Contact: 10/09/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 04/26/2023 Source: EPA
Date Data Arrived at EDR: 05/02/2023 Telephone: N/A

Next Scheduled EDR Contact: 10/09/2023 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: EPA Telephone: N/A

Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/09/2023 Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 03/26/2023 Date Data Arrived at EDR: 03/28/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 63

Source: Environmental Protection Agency Telephone: 703-603-8704

Last EDR Contact: 06/23/2023

Next Scheduled EDR Contact: 10/09/2023 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: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023 Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023 Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 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: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 02/08/2023 Date Data Arrived at EDR: 02/09/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 82

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 08/21/2023 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: 02/20/2023 Date Data Arrived at EDR: 02/21/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023 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: 02/20/2023 Date Data Arrived at EDR: 02/21/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023

Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

substances.

Date of Government Version: 03/20/2023 Date Data Arrived at EDR: 03/21/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 70

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ECSI: Environmental Cleanup Site Information System

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

Date of Government Version: 03/01/2023 Date Data Arrived at EDR: 03/28/2023 Date Made Active in Reports: 06/08/2023

Number of Days to Update: 72

Source: Department of Environmental Quality

Telephone: 503-229-6629 Last EDR Contact: 06/26/2023

Next Scheduled EDR Contact: 10/09/2023 Data Release Frequency: Quarterly

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

Date of Government Version: 02/01/2023 Date Data Arrived at EDR: 02/08/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 83

Source: Department of Environmental Quality

Telephone: 503-229-6170 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 08/21/2023 Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facilities List

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

Date of Government Version: 01/13/2023 Date Data Arrived at EDR: 01/13/2023 Date Made Active in Reports: 04/04/2023

Number of Days to Update: 81

Source: Department of Environmental Quality

Telephone: 503-229-6299 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023 Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Database

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

Date of Government Version: 01/11/2023 Date Data Arrived at EDR: 02/08/2023 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 82

Source: Department of Environmental Quality

Telephone: 503-229-5790 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 08/21/2023 Data Release Frequency: Quarterly

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

Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 04/19/2023

Number of Days to Update: 134

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: Environmental Protection Agency

Telephone: 415-972-3372 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 10/19/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 11/26/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 05/08/2023

Next Scheduled EDR Contact: 07/31/2023 Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 82

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 06/27/2023

Next Scheduled EDR Contact: 10/16/2023 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: 01/11/2023 Date Data Arrived at EDR: 02/08/2023 Date Made Active in Reports: 05/01/2023

Number of Days to Update: 82

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 08/21/2023 Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 10/20/2022 Date Data Arrived at EDR: 11/30/2022 Date Made Active in Reports: 02/17/2023

Number of Days to Update: 79

Source: Office of State Fire Marshal Telephone: 503-378-3473 Last EDR Contact: 04/20/2023

Next Scheduled EDR Contact: 08/07/2023 Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 04/19/2023

Number of Days to Update: 134

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023

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: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023

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: 10/19/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 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: 10/14/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023

Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/23/2022 Date Data Arrived at EDR: 12/06/2022 Date Made Active in Reports: 03/03/2023

Number of Days to Update: 87

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 07/31/2023 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

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

Date of Government Version: 03/01/2023 Date Data Arrived at EDR: 03/28/2023 Date Made Active in Reports: 06/08/2023

Number of Days to Update: 72

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 06/26/2023

Next Scheduled EDR Contact: 10/09/2023 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: 03/01/2023 Date Data Arrived at EDR: 03/28/2023 Date Made Active in Reports: 06/08/2023

Number of Days to Update: 72

Source: Department of Environmental Quality

Telephone: 503-229-5193 Last EDR Contact: 06/26/2023

Next Scheduled EDR Contact: 10/09/2023 Data Release Frequency: Quarterly

Lists of 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: 06/13/2023

Next Scheduled EDR Contact: 10/02/2023

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: 08/16/2022 Date Data Arrived at EDR: 09/26/2022 Date Made Active in Reports: 12/12/2022

Number of Days to Update: 77

Source: DEQ

Telephone: 503-229-5256 Last EDR Contact: 06/22/2023

Next Scheduled EDR Contact: 10/09/2023 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: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects

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

Date of Government Version: 02/01/2023 Date Data Arrived at EDR: 02/08/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 83

Source: Department of Environmental Quality

Telephone: 503-229-6801 Last EDR Contact: 05/09/2023

Next Scheduled EDR Contact: 08/21/2023 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: 04/06/2023 Date Data Arrived at EDR: 04/13/2023 Date Made Active in Reports: 04/19/2023

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 06/08/2023

Next Scheduled EDR Contact: 09/25/2023 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: 02/21/2023 Date Data Arrived at EDR: 02/22/2023 Date Made Active in Reports: 05/12/2023

Number of Days to Update: 79

Source: Department of Environmental Quality

Telephone: 503-229-5353 Last EDR Contact: 05/24/2023

Next Scheduled EDR Contact: 09/04/2023 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: 04/19/2023

Next Scheduled EDR Contact: 08/07/2023 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: 07/11/2023

Next Scheduled EDR Contact: 10/30/2023 Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 04/27/2023

Next Scheduled EDR Contact: 08/07/2023

Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

AOC COL: Columbia Slough

Columbia Slough waterway boundaries.

Date of Government Version: 08/10/2005 Date Data Arrived at EDR: 05/17/2006 Date Made Active in Reports: 06/16/2006

Number of Days to Update: 30

Source: City of Portland Environmental Services

Telephone: 503-823-5310 Last EDR Contact: 03/13/2007 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory

Register.

Date of Government Version: 05/22/2023 Date Data Arrived at EDR: 05/23/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 48

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023 Data Release Frequency: No Update Planned

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

CDL: Uninhabitable Drug Lab Properties

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

Date of Government Version: 01/30/2023 Date Data Arrived at EDR: 02/01/2023 Date Made Active in Reports: 04/17/2023

Number of Days to Update: 75

Source: Department of Consumer & Business Services

Telephone: 503-378-4133 Last EDR Contact: 05/03/2023

Next Scheduled EDR Contact: 08/14/2023 Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Site Listing

A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 12/31/2022 Date Data Arrived at EDR: 01/25/2023 Date Made Active in Reports: 04/17/2023

Number of Days to Update: 82

Source: Oregon State Police Telephone: 503-373-1540 Last EDR Contact: 04/26/2023

Next Scheduled EDR Contact: 08/07/2023

Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

Date of Government Version: 05/22/2023 Date Data Arrived at EDR: 05/23/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 48

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 05/23/2023

Next Scheduled EDR Contact: 09/04/2023 Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/09/2023 Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 03/19/2023 Date Data Arrived at EDR: 03/21/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 70

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

SPILLS: Spill Data

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

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 06/15/2023

Number of Days to Update: 77

Source: Department of Environmental Quality

Telephone: 503-229-5815 Last EDR Contact: 06/22/2023

Next Scheduled EDR Contact: 10/09/2023 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: 12/31/2022 Date Data Arrived at EDR: 01/25/2023 Date Made Active in Reports: 04/17/2023

Number of Days to Update: 82

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 04/26/2023

Next Scheduled EDR Contact: 08/07/2023 Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

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

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

Number of Days to Update: 50

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

Other Ascertainable Records

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

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

Date of Government Version: 03/06/2023 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 05/08/2023 Date Data Arrived at EDR: 05/16/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 55

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 05/16/2023

Next Scheduled EDR Contact: 08/28/2023 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: 06/07/2021 Date Data Arrived at EDR: 07/13/2021 Date Made Active in Reports: 03/09/2022

Number of Days to Update: 239

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 07/10/2023

Next Scheduled EDR Contact: 10/23/2023 Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 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: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023

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: 07/30/2021 Date Data Arrived at EDR: 02/03/2023 Date Made Active in Reports: 02/10/2023

Number of Days to Update: 7

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 05/11/2023

Next Scheduled EDR Contact: 08/21/2023 Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/13/2023 Date Data Arrived at EDR: 03/21/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

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

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 05/01/2023

Next Scheduled EDR Contact: 08/14/2023 Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

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

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 05/04/2023

Next Scheduled EDR Contact: 08/14/2023 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: 12/31/2020 Date Data Arrived at EDR: 06/14/2022 Date Made Active in Reports: 03/24/2023

Number of Days to Update: 283

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 06/16/2023

Next Scheduled EDR Contact: 09/25/2023 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: 12/31/2021 Date Data Arrived at EDR: 02/16/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 75

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 05/19/2023

Next Scheduled EDR Contact: 08/28/2023 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: 04/17/2023 Date Data Arrived at EDR: 04/18/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 83

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 04/18/2023

Next Scheduled EDR Contact: 07/31/2023 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: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 09/11/2023 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: 04/27/2022 Date Data Arrived at EDR: 05/04/2022 Date Made Active in Reports: 05/10/2022

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 06/12/2023

Next Scheduled EDR Contact: 07/31/2023 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: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 08/14/2023 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2023 Date Data Arrived at EDR: 04/04/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 66

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 07/07/2023

Next Scheduled EDR Contact: 10/16/2023 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: 06/27/2023

Next Scheduled EDR Contact: 10/16/2023 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: 03/15/2023 Date Data Arrived at EDR: 03/21/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 70

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 04/13/2023

Next Scheduled EDR Contact: 07/31/2023 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: 12/31/2021 Date Data Arrived at EDR: 04/14/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 87

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 05/25/2023

Next Scheduled EDR Contact: 09/11/2023 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: 05/25/2023

Next Scheduled EDR Contact: 09/11/2023 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: 05/04/2023

Next Scheduled EDR Contact: 08/14/2023

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: 06/22/2023

Next Scheduled EDR Contact: 10/09/2023 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: 04/25/2023

Next Scheduled EDR Contact: 08/07/2023 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: 03/31/2023 Date Data Arrived at EDR: 04/20/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library

Telephone: Varies

Last EDR Contact: 06/27/2023

Next Scheduled EDR Contact: 10/16/2023

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: 12/31/2021 Date Data Arrived at EDR: 03/09/2023 Date Made Active in Reports: 03/20/2023

Number of Days to Update: 11

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/20/2023

Next Scheduled EDR Contact: 10/02/2023 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: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 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: 03/03/2023 Date Data Arrived at EDR: 03/03/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 98

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 04/26/2023

Next Scheduled EDR Contact: 08/14/2023

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: 05/24/2023

Next Scheduled EDR Contact: 08/28/2023 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/26/2023 Date Data Arrived at EDR: 05/02/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/09/2023 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: 02/02/2023 Date Data Arrived at EDR: 02/22/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 05/24/2023

Next Scheduled EDR Contact: 09/04/2023 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: 04/03/2023 Date Data Arrived at EDR: 04/04/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi

Telephone: 202-693-9424 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 09/11/2023 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: 01/07/2022 Date Data Arrived at EDR: 02/24/2023 Date Made Active in Reports: 05/17/2023

Number of Days to Update: 82

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 05/25/2023

Next Scheduled EDR Contact: 09/04/2023 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: 05/25/2023

Next Scheduled EDR Contact: 09/04/2023 Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

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

Date of Government Version: 03/17/2023 Date Data Arrived at EDR: 03/17/2023 Date Made Active in Reports: 05/30/2023

Number of Days to Update: 74

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 06/13/2023

Next Scheduled EDR Contact: 09/18/2023 Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 02/02/2023 Date Data Arrived at EDR: 02/28/2023 Date Made Active in Reports: 03/24/2023

Number of Days to Update: 24

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 05/25/2023

Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021 Date Data Arrived at EDR: 10/20/2022 Date Made Active in Reports: 01/10/2023

Number of Days to Update: 82

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023

Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021 Date Data Arrived at EDR: 05/21/2021 Date Made Active in Reports: 08/11/2021

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 05/17/2023

Next Scheduled EDR Contact: 09/04/2023 Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/25/2023 Date Data Arrived at EDR: 03/31/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 70

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 06/29/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/15/2023 Date Data Arrived at EDR: 05/17/2023 Date Made Active in Reports: 07/10/2023

Number of Days to Update: 54

Source: EPA Telephone: 800-385-6164

Last EDR Contact: 05/17/2023

Next Scheduled EDR Contact: 08/28/2023 Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 06/07/2023 Date Data Arrived at EDR: 06/08/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 1

Source: Environmental Protection Agency

Telephone: 703-603-8895 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 04/07/2023

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023

Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST HANDLING INSTR), Non-hazardous waste description (NON HAZ WASTE DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 33

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020 Date Data Arrived at EDR: 03/17/2021 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 601

Source: Department of Health & Human Services

Telephone: 202-741-5770 Last EDR Contact: 04/20/2023

Next Scheduled EDR Contact: 08/07/2023 Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 33

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 04/07/2023

Number of Days to Update: 8

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 04/03/2023

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 04/03/2023

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/30/2023 Date Data Arrived at EDR: 03/30/2023 Date Made Active in Reports: 04/03/2023

Number of Days to Update: 4

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023

Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 04/27/2023 Date Data Arrived at EDR: 04/27/2023 Date Made Active in Reports: 05/02/2023

Number of Days to Update: 5

Source: Environmental Protection Agency Telephone: 202-272-0167

Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

PFAS: PFAS Site Contamination Listing

Site locations where pfas contamination has been detected.

Date of Government Version: 08/22/2022 Date Data Arrived at EDR: 10/07/2022 Date Made Active in Reports: 12/19/2022

Number of Days to Update: 73

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023 Data Release Frequency: Varies

AQUEOUS FOAM: AFFF Contamination Site Listing

Site locations with aqueous film-forming foam use and environmental impact.

Date of Government Version: 01/12/2023 Date Data Arrived at EDR: 01/13/2023 Date Made Active in Reports: 04/04/2023

Number of Days to Update: 81

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 07/06/2023

Next Scheduled EDR Contact: 10/23/2023

Data Release Frequency: Varies

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 03/28/2023 Date Data Arrived at EDR: 03/29/2023 Date Made Active in Reports: 06/08/2023

Number of Days to Update: 71

Source: Department of Environmental Quality

Telephone: 503-229-6459 Last EDR Contact: 06/22/2023

Next Scheduled EDR Contact: 10/09/2023 Data Release Frequency: Annually

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

Date of Government Version: 12/31/2022 Date Data Arrived at EDR: 03/15/2023 Date Made Active in Reports: 06/01/2023

Number of Days to Update: 78

Source: Department of Environmental Quality

Telephone: 541-298-7255 Last EDR Contact: 05/24/2023

Next Scheduled EDR Contact: 09/11/2023

Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities

A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 01/23/2023 Date Data Arrived at EDR: 01/25/2023 Date Made Active in Reports: 04/17/2023

Number of Days to Update: 82

Source: Department of Environmental Quality

Telephone: 503-229-6783 Last EDR Contact: 04/20/2023

Next Scheduled EDR Contact: 08/07/2023 Data Release Frequency: Annually

ENF: Enforcement Action Listing Enforcement actions

> Date of Government Version: 12/12/2022 Date Data Arrived at EDR: 12/12/2022 Date Made Active in Reports: 03/02/2023

Number of Days to Update: 80

Source: Department of Environmental Quality

Telephone: 503-229-5696 Last EDR Contact: 06/01/2023

Next Scheduled EDR Contact: 09/25/2023 Data Release Frequency: Quarterly

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

Date of Government Version: 09/21/2022 Date Data Arrived at EDR: 11/29/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 6

Source: Department of Environmental Quality

Telephone: 541-633-2011 Last EDR Contact: 05/24/2023

Next Scheduled EDR Contact: 09/11/2023 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: 03/03/2023 Date Data Arrived at EDR: 03/03/2023 Date Made Active in Reports: 05/23/2023

Number of Days to Update: 81

Source: Department of Environmental Quality

Telephone: 503-229-5521 Last EDR Contact: 05/10/2023

Next Scheduled EDR Contact: 08/28/2023 Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey

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

Date of Government Version: 01/23/2023 Date Data Arrived at EDR: 01/25/2023 Date Made Active in Reports: 04/17/2023

Number of Days to Update: 82

Source: State Fire Marshal's Office Telephone: 503-373-1540 Last EDR Contact: 04/26/2023

Next Scheduled EDR Contact: 08/07/2023 Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 07/28/2021 Date Made Active in Reports: 10/21/2021

Number of Days to Update: 85

Source: Department of Environmental Quality

Telephone: N/A

Last EDR Contact: 04/27/2023

Next Scheduled EDR Contact: 08/14/2023 Data Release Frequency: Annually

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

Date of Government Version: 02/21/2023 Date Data Arrived at EDR: 02/23/2023 Date Made Active in Reports: 03/10/2023

Number of Days to Update: 15

Source: Department of Environmental Quality

Telephone: 503-229-5657 Last EDR Contact: 04/27/2023

Next Scheduled EDR Contact: 08/14/2023 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: 09/30/2022 Date Data Arrived at EDR: 10/04/2022 Date Made Active in Reports: 12/20/2022

Number of Days to Update: 77

Source: Department of Environmental Quality

Telephone: 503-229-5945 Last EDR Contact: 06/14/2023

Next Scheduled EDR Contact: 10/02/2023 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: 06/27/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: No Update Planned

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: 06/27/2023

Next Scheduled EDR Contact: 10/16/2023 Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System Mineral Resources Data System

> Date of Government Version: 08/23/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 02/28/2023

Number of Days to Update: 98

Source: USGS

Telephone: 703-648-6533 Last EDR Contact: 05/25/2023

Next Scheduled EDR Contact: 09/04/2023 Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 06/07/2023 Date Data Arrived at EDR: 06/08/2023 Date Made Active in Reports: 06/09/2023

Number of Days to Update: 1

Source: Environmental Protection Agency

Telephone: 202-566-0250 Last EDR Contact: 07/05/2023

Next Scheduled EDR Contact: 10/16/2023 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.

Source: EDR, Inc.

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

Telephone: N/A Last EDR Contact: N/A Number of Days to Update: 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

Telephone: N/A
Last FDR Contact: 06/01/2012

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

Source: Department of Environmental Quality

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: 10/29/2021 Date Made Active in Reports: 01/19/2022 Number of Days to Update: 82 Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 04/27/2023

Next Scheduled EDR Contact: 08/07/2023 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: 06/01/2023

Next Scheduled EDR Contact: 09/18/2023 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

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.

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Daycare Centers: Child Care Listings Source: Employment Department Telephone: 503-947-1420

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data Source: Oregon Geospatial Enterprise Office

Telephone: 503-378-2166

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

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

N. NORTH FORTY HWY 101 AND 24TH AVENUE SEASIDE, OR 97138

TARGET PROPERTY COORDINATES

Latitude (North): 46.009413 - 46° 0' 33.89" Longitude (West): 123.914813 - 123° 54' 53.33"

Universal Tranverse Mercator: Zone 10 UTM X (Meters): 429173.9 UTM Y (Meters): 5095282.0

Elevation: 5 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 14877661 GEARHART, OR

Version Date: 2020

South Map: 14878242 TILLAMOOK HEAD, OR

Version Date: 2020

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

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

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

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

GROUNDWATER FLOW DIRECTION INFORMATION

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

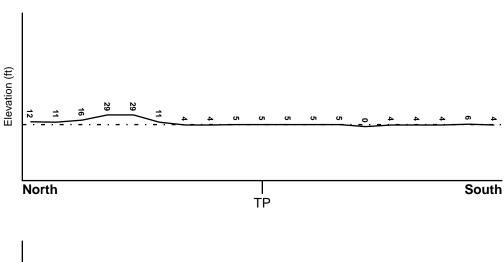
TOPOGRAPHIC INFORMATION

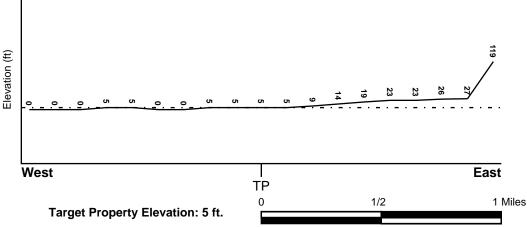
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General 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.

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

41007C0368E FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

41007C0369E FEMA FIRM Flood data 41007C0506E FEMA FIRM Flood data 41007C0510E FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

GEARHART 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.

LOCATION GENERAL DIRECTION

MAP ID FROM TP GROUNDWATER FLOW

Not Reported

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

GEOLOGIC AGE IDENTIFICATION

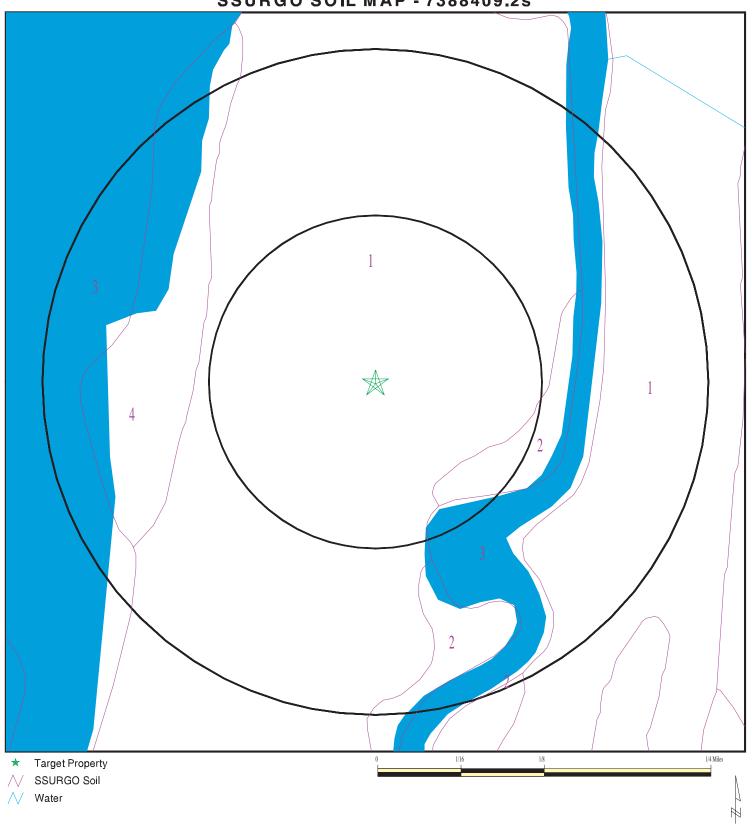
Era: Cenozoic Category: Stratified Sequence

System: Tertiary Series: Miocene

Code: Tm (decoded above as Era, System & Series)

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

SSURGO SOIL MAP - 7388409.2s



SITE NAME: N. North Forty
ADDRESS: Hwy 101 and 24th Avenue
Seaside OR 97138
LAT/LONG: 46.009413 / 123.914813

CLIENT: Stantec CONTACT: Carrie Rackey INQUIRY #: 7388409.2s DATE: July 12, 2023 5:24 pm

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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: Gearhart

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information								
	Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 5.5 Min: 4.5	
2	11 inches	16 inches	loamy fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 5.5 Min: 4.5	
3	16 inches	59 inches	fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 5.5 Min: 4.5	

Soil Map ID: 2

Soil Component Name: Coquille

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 inches

Soil Layer Information							
Layer	Boundary			Classification		Saturated hydraulic	
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6
2	5 inches	29 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6
3	29 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 1.4 Min: 0.42	Max: 7.3 Min: 5.6

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class:

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Beaches

Soil Surface Texture: stratified gravel to sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 92 inches

Soil Layer Information									
	Boundary			Classification		Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group			Soil Reaction (pH)		
1	0 inches	59 inches	stratified gravel to sand	Not reported	Not reported	Max: Min:	Max: Min:		

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE SEARCH DISTANCE (miles)

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

State Database 1.000

FEDERAL USGS WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

No PWS System Found

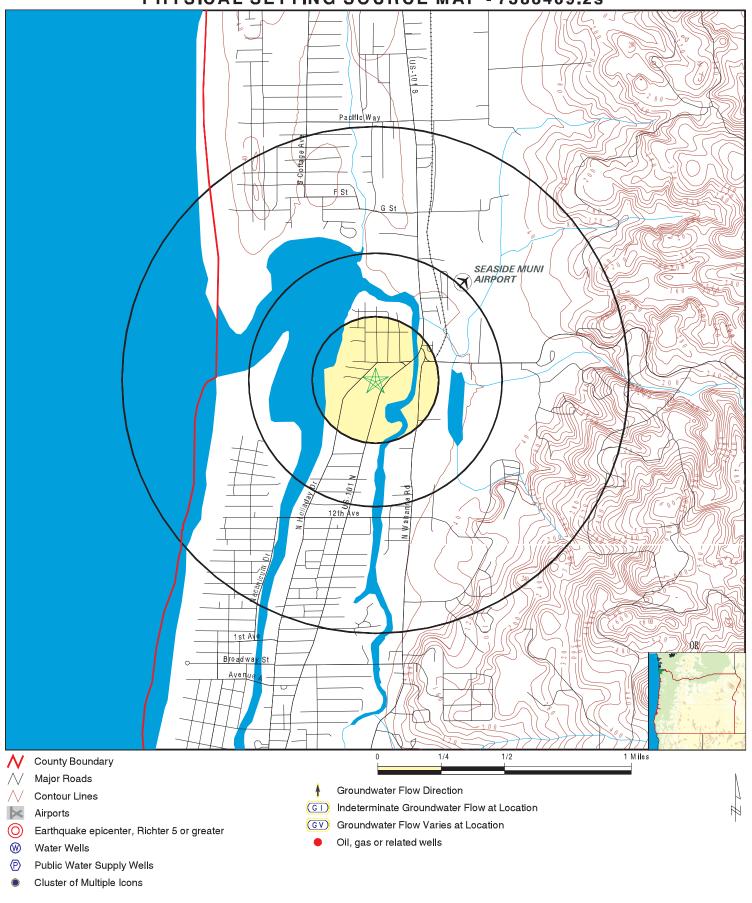
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID WELL ID FROM TP

No Wells Found

PHYSICAL SETTING SOURCE MAP - 7388409.2s



SITE NAME: N. North Forty ADDRESS: Hwy 101 and 24th Avenue

Seaside OR 97138 LAT/LONG: 46.009413 / 123.914813 CLIENT: Stantec CONTACT: Carrie Rackey

INQUIRY #: 7388409.2s DATE: July 12, 2023 5:24 pm

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: OR Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Average	# > 4 pCi/L
97138	5	0.8	0.1	0.5	0

Federal EPA Radon Zone for CLATSOP County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

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

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CLATSOP COUNTY, OR

Number of sites tested: 17

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.200 pCi/L	94%	6%	0%
Basement	3.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data Source: Oregon Geospatial Enterprise Office

Telephone: 503-378-2166

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

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

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Water Resources

Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations

Source: Department of Geology and Mineral Industries

Telephone: 971-673-1540

A listing of oil and gas well locations in the state.

RADON

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

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared

in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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N. North Forty

Hwy 101 and 24th Avenue Seaside, OR 97138

Inquiry Number: 7388409.8

July 14, 2023

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

07/14/23

Site Name: Client Name:

N. North Forty Stantec

Hwy 101 and 24th Avenue 601 SW 2nd Ave, Suite 1400

Seaside, OR 97138 Portland, OR 97204 EDR Inquiry # 7388409.8 Contact: Carrie Rackey



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
2020	1"_500'	Flight Voor: 2020	USDA/NAIP
	1"=500'	Flight Year: 2020	
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2000	1"=500'	Acquisition Date: July 30, 2000	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: September 04, 1990	USGS
1983	1"=500'	Flight Date: August 03, 1983	USGS
1981	1"=500'	Flight Date: August 06, 1981	USDA
1977	1"=500'	Flight Date: July 31, 1977	USGS
1975	1"=500'	Flight Date: September 01, 1975	USGS
1969	1"=500'	Flight Date: July 16, 1969	USGS
1956	1"=500'	Flight Date: April 13, 1956	USGS
1953	1"=500'	Flight Date: July 21, 1953	USGS

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INQUIRY #: 7388409.8

YEAR: 1990





INQUIRY #: 7388409.8

YEAR: 1983













N. North Forty Hwy 101 and 24th Avenue Seaside, OR 97138

Inquiry Number: 7388409.5

July 17, 2023

The EDR-City Directory Image Report



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EXECUTIVE SUMMARY

DESCRIPTION

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

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

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

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2020	$\overline{\checkmark}$		EDR Digital Archive
2017	$\overline{\checkmark}$		Cole Information
2014	$\overline{\checkmark}$		Cole Information
2010	$\overline{\checkmark}$		Cole Information
2005	$\overline{\checkmark}$		Cole Information
2000	$\overline{\checkmark}$		Cole Information
1995	$\overline{\checkmark}$		Cole Information
1992	$\overline{\checkmark}$		Cole Information
1986	$\overline{\checkmark}$		Polk's City Directory
1981	$\overline{\checkmark}$		Polk's City Directory
1976	$\overline{\checkmark}$		Polk's City Directory
1972	$\overline{\checkmark}$		Polk's City Directory
1968	$\overline{\checkmark}$		Polk's City Directory

TARGET PROPERTY STREET

Hwy 101 and 24th Avenue Seaside, OR 97138

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
24TH AVE			
2020	pg A1	EDR Digital Archive	
2017	pg A4	Cole Information	
2014	pg A7	Cole Information	
2010	pg A10	Cole Information	
2005	pg A13	Cole Information	
2000	pg A16	Cole Information	
1995	pg A19	Cole Information	
1992	pg A22	Cole Information	
1986	pg A25	Polk's City Directory	
1986	pg A26	Polk's City Directory	
1981	pg A31	Polk's City Directory	
1976	pg A34	Polk's City Directory	
1976	pg A35	Polk's City Directory	
1972	pg A39	Polk's City Directory	
1968	pg A43	Polk's City Directory	
HIGHWAY 10	1		
	_		
2020	-	EDR Digital Archive	Target and Adjoining not listed in Source
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1986	-	Polk's City Directory	Target and Adjoining not listed in Source
1981	-	Polk's City Directory	Target and Adjoining not listed in Source

<u>Year</u>	CD Image	<u>Source</u>	
1976	-	Polk's City Directory	Target and Adjoining not listed in Source
1972	-	Polk's City Directory	Target and Adjoining not listed in Source
1968	-	Polk's City Directory	Target and Adjoining not listed in Source

N HOLLADAY DR

2020	pg A2	EDR Digital Archive
2017	pg A5	Cole Information
2014	pg A8	Cole Information
2010	pg A11	Cole Information
2005	pg A14	Cole Information
2000	pg A17	Cole Information
1995	pg A20	Cole Information
1992	pg A23	Cole Information
1986	pg A27	Polk's City Directory
1986	pg A28	Polk's City Directory
1981	pg A32	Polk's City Directory
1976	pg A36	Polk's City Directory
1972	pg A40	Polk's City Directory
1972	pg A41	Polk's City Directory
1968	pg A44	Polk's City Directory
1968	pg A45	Polk's City Directory

N ROOSEVELT DR

2020	pg A3	EDR Digital Archive
2017	pg A6	Cole Information
2014	pg A9	Cole Information
2010	pg A12	Cole Information
2005	pg A15	Cole Information
2000	pg A18	Cole Information
1995	pg A21	Cole Information
1992	pg A24	Cole Information
1986	pg A29	Polk's City Directory
1986	pg A30	Polk's City Directory

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
1981	pg A33	Polk's City Directory
1976	pg A37	Polk's City Directory
1976	pg A38	Polk's City Directory
1972	pg A42	Polk's City Directory
1968	pg A46	Polk's City Directory

CROSS STREETS

No Cross Streets Identified



Target Street Cross Street Source

→ EDR Digital Archive

24TH AVE 2020

600	LEIGH TAYLOR
708	POWELL VENTURES LLC
	STEWART ESHAM
715	CHRISTINA WUCHERPFENNIG
	SHARON WUCHERPFENNIG
	STEVE WUCHERPFENNIG
840	SUNSET FAMILY FITNESS
841	JOE SOPKO
	SHERRY SOPKO
900	JASON GLADNEY
	MARY REMENSNYDER
	ROBERT REMENSNYDER
	SEASIDE PET CLINIC
924	CFN CARDLOCK
941	WILCOX & FLEGEL OIL CO
1032	ALLEN SHELTON
	ALLYSON GRIFFITH
	BARBARA CULLUM
	CYNTHIA BALDWIN
	DARREN IVY
	DWIGHT CROW
	ERIC COVEY
	GRANT TSIATSOS
	JACK STEPHENS
	JOYCE DAWLEY
	KHRISTOPHER PAICH
	LEONA SISSON
	LETHA BYAM
	MARSHALL SCOTT
	MICHAEL COVEY
	STEVEN COLVIN
	TERESA BRASWELL
	VENICE RV PARK

Target Street Cross Street Source

→ EDR Digital Archive

N HOLLADAY DR 2020

2022	MAX JOHNSON
2025	BENJAMIN WOLLENS
	KERRY HACKETT
2105	JACKIE DOCHOW
	MARK DOCHOW
	PAUL DOCHOW
2112	KATHRYN SHAPIRO
2130	JENNIFER JAFFE
2140	ANNETTE CANTRELL
2260	ORALEE STARR
	TYLER MOORE
2333	CRAIG JONES
	MICHAEL BAUSKE
2335	TAMMY CHRISTINE HAYES RDH
2339	MARTIN DENISE
2375	JOE SOPKO
	SOPKO WELDING INC

Target Street Cross Street Source

→ EDR Digital Archive

N ROOSEVELT DR 2020

1725	BRENT BOLES
	INLAND ELECTRIC
1985	SCHOOLS BUS BARNS
2041	M & F PLUMBING
	SOUTH CLATSOP COUNTY FOOD BANK
2263	TICOR TITLE INSURANCE
2271	DUTCH BROS COFFEE
2275	LOS TACOS LOCOS
2283	SCOTT SANTOS-DDS-PC
	SEASIDE FAMILY DENTISTRY
2297	SEASIDE CAR & BOAT WASH
2311	RANDALL LEE'S FLOORINGAMERICA
2315	TLC A DIV OF FIBRE FEDERAL CU
2561	AMJ INSULATION
	ASHLEY CHASE
	CARMEN BRYANT
	KENNETH WICKS
	KIMBERLY DODD
	ROBERT DELKER
	SUSAN GUDERJOHN
2665	SEASIDE HELICOPTER LLC

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

24TH AVE 2017

600 708 715 840 900	BALL, KATRINA ESHAM, STEWART O WUCHERPFENNIG, STEVEN L SUNSET FAMILY FITNESS LLC GLADNEY, JASON D
1032	SEASIDE PET CLINIC BYAM, LETHA M CROW, DWIGHT D DAWLEY, JOYCE H GRIFFITH, ALLYSON HILL, PATRICIA M HOYT, CAROLYN N HUNTER, CHARLES H KEISEL, DONNA J MADISON, CANDY MGEE, JAMES SCOTT, MARSHALL E SISSON, MARSHALL STANDRING, SHARON E STEPHENS, JACK TINGLE, ERICA TSIATSOS, GRANT G VENICE RV PARK

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

N HOLLADAY DR 2017

N HOLLADAY DR	2017
JOHNSON, MAX G POOLE, ROBERT M DOCHOW, PAUL K LEBENZON, KAREN H BAUSKE, MICHAEL A SNABEL, JOHN R ILES, PETER A LINDAS RAG & BONE	
	JOHNSON, MAX G POOLE, ROBERT M DOCHOW, PAUL K LEBENZON, KAREN H BAUSKE, MICHAEL A SNABEL, JOHN R ILES, PETER A

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

N ROOSEVELT DR 2017

	N KOOSEVELI DK	2017
1725 1985 2041 2283 2297 2311 2561	INLAND ELECTRIC INC SCHOOLSPUBLIC SOUTH COUNTY COMMUNITY FOOD BANK SEASIDE FAMILY DENTISTRY SEASIDE CAR & BOAT WASH RANDALL LEES FLOORING AMERICA ABBATE, SAMUEL J DELKER, ROBERT A GAUDRY, MONIQUE GUDERJOHN, RONALD L PORRAS, CONNY	2011

24TH AVE 2014

600	OCCUPANT UNKNOWN,
616	BANG, FERN E
708	BRIEN, JESSICA
715	WUCHERPFENNIG, STEVEN L
840	SUNSET FAMILY FITNESS LLC
900	OCCUPANT UNKNOWN,
	SEASIDE PET CLINIC
1032	COVEY, MICHAEL O
	CROW, DWIGHT D
	DAVIS, BRADLEY S
	DAWLEY, JOYCE H
	GRIFFITH, ALLYSON
	HILL, PATRICIA M
	HOYT, CAROLYN N
	JOSLYN, ROBERT C
	LATOURETTE, DONALD C
	LLOYD, MARIE
	MARAHRENS, SUSAN M
	MGEE, JAMES
	SIMPSON, EDNA M
	SMITH, DOUG
	STEINKE, LEAH R
	TSIATSOS, GRANT G
	VENICE RV PARK

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	N HOLLADAY DR	2014
2022 2025 2030 2105 2108 2112 2130 2140	PAULSON, RICHARD G POOLE, ROBERT A OCCUPANT UNKNOWN, DOCHOW, PAUL K OCCUPANT UNKNOWN, DANFORTH, PJ OCCUPANT UNKNOWN, LEBENZON, KAREN H	
2260 2333 2335 2339 2375	HOFF, JOHN W JONES, CRAIG L SNABEL, JOHN R LINDAS RAG & BONE SAVAGE, DEXTER SOPKO WELDING	

Target Street Cross Street <u>Source</u> Cole Information

	N ROOSEVELT DR	2014
4005		
1985 2051	SCHOOLSPUBLIC OCCUPANT UNKNOWN,	
2275	ROSAS ENCHILADAS	
2297		
2311	LEE, RANDALL	
2011	RANDAL LEES FLOORING AMERICA	
2315	HENKE, HARRY	
0504	TLC FEDERAL CREDIT UNION	
2561	ABBATE, SAMUEL J	
	BROWN, ALEX CHASE, ASHLEY	
	DELKER, ROBERT A	
	LAWRENCE, JEFFREY C	
	MANN, BRANDON	
	MERGEL, KYLE I	
	RHODES, HARVEY A	
	SMITH, RONNIE	
2620	CLAPSOP SHORES	
2651	ELLIS, ANN	

24TH AVE 2010

600	STAGEBERG, BRENDA
616	BANG, CHARLES A
708	OCCUPANT UNKNOWN,
715	WUCHERPFENNIG, STEVEN L
840	SUNSET FAMILY FITNESS
841	NORTH COAST CRANE SVC
	SOPKO WELDING INC
900	REMENSNYDER, ROBERT J
	SEASIDE PET CLINIC
	WYSONG PET DIETS
1032	ANGEL, URSULA
	BRUNEAU, DEE A
	BYAM, LETHA M
	CROW, DWIGHT
	HAYES, BLAINE
	HILL, HAROLD L
	HOYT, CAROLYN N
	LANGA, DAVID
	LEWIS, MATT
	MALTA, JOEL
	MERRITT, JOAN
	MGEE, JAMES
	SAWDON, MYTHINA M
	SIMPSON, EDNA M
	STEINKE, LEAH R
	TSIATSOS, GRANT G
	VENICE RV PARK
	VERNO, CYNTHIA
	WENDEBORN, WILLIAM R
	WILKINSON, THOMAS A

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	N HOLLADAY DR	2010
2025 2030 2105 2108 2112 2120 2130 2140 2260 2333 2335 2335	POOLE, ROBERT M OCCUPANT UNKNOWN, OCCUPANT UNKNOWN, MACKAY, JAMES H DANFORTH, PATRICIA J SMILES, ALAN OCCUPANT UNKNOWN, LEBENZON, KAREN H HOFF, JOHN W LOWE, RANDY B SNABEL, JOHN R SAVAGE, MARTIN M	

	N ROOSEVELT DR	2010
1725	COASTAL REPAIR & MAINTENANCE	
1985	SCHOOLS BUS BARNS	
2051	SCHOOLS PUBLIC WAREHOUSE OCCUPANT UNKNOWN,	
2080	OCCUPANT UNKNOWN,	
2315		
2561	BLAKE, BRANDI J	
	BRYANT, LAYNE	
	DELKER, ROBERT A	
	GODDARD, SUSIE	
	GUTIERREZ, CHELSEY	
	LAHAIE, JESSICA MCGREGOR, K	
	MENDANHALL, JIM	
	PERKINS, JOHN H	
2609	FARMERS INSURANCE GROUP	
	HAIR BY PANSHEKAY	
	HORNING GEOSCIENCES	
	MILK CREEK MINI STORAGE	
	SILVERSTONE MANAGEMENT STEPHEN C PUTMAN INSURANCE	
	SUNDIAL TRAVEL SVC	
	THRESHOLD INC	
2651	ELLIS, ANN	

24TH AVE 2005

600	TAYLOR, WILLIAM B
616	BANG, E E
715	OBEREM, JEAN M
840	C SIDE FEASIDE
040	
0.44	SEASIDE FITNESS
841	SOPKO WELDING INC
900	REMENSNYDER PET CLINIC
	WYSONG, PET D
941	WILCOX & FLEGEL
1032	ABDULKARIM, KAMEL A
	BILLETES, PETE
	BODE, FREDRICK H
	BROWN, JENNIFER
	BYAM, LETHA M
	CHAPIN, FREDERICK
	GRIMES, LEE
	HAYES, B
	HOWELL, JOHN P
	JOSLYN, ROBERT C
	KELL, RICHARD
	LANGA, DAVID
	LITTLE, KAYE E
	MALTA, KIMBERLY
	MERRITT, JOAN
	NICKINELLO, ANTHONY
	PLOWMAN, RON
	•
	RHODES, WILL
	SAWDON, MYTHINA
	SEARLE, ROBERT D
	STEINKE, LEAH R
	TELEN, ZERELLA E
	TINGLE, BRIAN
	TSIATSOS, GRANT G
	VENICE R V PARK
	WEGAND, CAROLYN N
	WENDEBORN, WILLIAM R
	WILKINSON, THOMAS A

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	N HOLLADAY DR	2005
2022	ALLENBAUGH, KAY	
2025	POOLE, ROBERT M	
2030	REYNOLDS, DUSTIN	
2105	DOCHOW, PAUL K	
2108	OCCUPANT UNKNOWN,	
2112	DANFORTH, PATRICIA J	
2120	GIZDAVICH, JOSH T	
2130	CAMERON, CHERYL L	
2140	LEBENZON, KAREN H	
2260	HOFF, ARLAYNE R	
2333	JOHN HOFF PAINTING	
2335	LOWE, RUBY E SNABEL, JOHN R	
2336	CELESTIAL BURNINGS CANDLE & CRAFT CO	
2000	CELECTIAE BORRINGO GANDLE & GRAFT GO	

N ROOSEVELT DR 2005

0044	M O E DILIMBINIO LI O
2041	M & F PLUMBING LLC
2051	MIKE & MARY MILLER LLC OCCUPANT UNKNOWN,
2315	CLARK, VICKY L
2561	KIRKWOOD, JEFF
2301	MCCAULEY, MICHAEL
	MILLER, CATHY
	MITCHELL, ALICE S
	SMITH, IAN
2565	ROBINSON, LAVENIE
2567	OCCUPANT UNKNOWN,
2569	THORNTON, ANDY
2571	HACKLEMAN, KIM
2573	TICE, JASON
2575	FLAIGG, KAREN
2577	ROBINSON, MICHAEL
2579	THORNBURG, RAY
2581	NEWMAN, RICK
2583	DECIUS, DARYLL
2585	STARR, TERESA
2589	THOMPSON, STACIE
2591	OCCUPANT UNKNOWN,
2593	MCPHIE, JAIMIE
2595	MELLA, JESUS A
2597	UTTERBECK, SCOTT
2599	JONES, SHAWN
2601	BARNES, SHERRI
2603	KULLAND, ALISHA
2609	SILVERSTONE MANAGEMENT
2611	LOVING, LEE M
2613	OCCUPANT UNKNOWN,
2615 2617	FORSTER, CRYSTAL OCCUPANT UNKNOWN,
2617	OCCUPANT UNKNOWN,
2621	NAVARRO, MONICA
2623	WEIGART, DARREN L
2629	HOWES, MICHAEL D
2633	MURPHY, EDWARD
2635	HARTVIGSEN, PEGGY

ELLIS, ANN

2651

24TH AVE 2000

600	TAYLOR, BILL B
616	OCCUPANT UNKNOWN,
715	OBEREM, J
	WUCHERPFENNIG, S L
840	SEASIDE FITNESS
841	OCCUPANT UNKNOWN,
	SOPKO WELDING
900	REMENSNYDER PET CLINIC
	WYSONG PET DIETS
1032	ABDULKARIM, KAMEL
	BALDWIN, ALICE A
	COMBS, JOY
	DAWLEY, JOYCE
	EARLS, WILLIAM
	HAIR
	HOWELL, JOHN P
	JONES, JASON R
	LITTLE, KAYE
	RYALS, HAROLD L
	SHEPHERD, ELMO
	TELEN, A A
	TSIATSOS, GRANT
	VENICE M H & R V PARK
	WENDBBORN, W R
	YARNE, KEN

2000	COASTLINE CONSTRUCTION & DESIGN INCORPORATED
2001	AAA METALS COMPANY
2022	WHITAKER, ROBERT
2025	POOLE, ROBERT E
2030	PLUNKETT, BILL B
2105	DOCHOW, PAUL K
2108	GIZDAVICH, JOHN
2140	KURRUS, TED
2155	LES SCHWAB TIRE CENTERS
	MCCALLS TIRE CENTER
2260	HOFF, JOHN
2333	LOWE, VIRGIL B
2335	SNABEL, JOHN R
2339	PACIFIC PUBLIC SAFETY & COMMUNICATIONS

N ROOSEVELT DR 2000

	N ROOSEVELT DR 2000
1701	HAMLET SATELLITE SYSTEMS
1701	BIRDWELL, BRIAN
1725	HOGGARD AUTO SALES & SERVICE
1940	VANDYKE, H D
1985	CANNON BEACH/GEARHART SEASIDE WAREHOUSE
1000	SCHOOLS PUBLIC SEASIDE
2041	M & F PLUMBING
2051	CHASE, DALE
2080	LYNCH, RAY
2315	OCCUPANT UNKNOWN,
2367	REGAN, TIMOTHY S
2465	MCKEE, RANDALL T

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

	24TH AVE	1995	
600 616 715 840 841 900 1024 1032	WREGE, WILLIAM BANG, CHARLES A WUCHERPFENNIG, STEVEN L SEASIDE FITNESS SOPKO BALLOONS & MORE SOPKO WELDING PET GROOMING SVC REMENSNYDER PET CLINIC OCCUPANT UNKNOWNN ASHBY, WILLIAM CLARK, JERRY CLARKE, L M EATCH, RUTH ELIASON, DOUGLAS HOLTHOUSEN, DONALD LEWIS, TOM D LITTLE, KAYE MCDONALD, SANDIE NOVARA, STANLEY M RYALS, HAROLD L SHEPHERD, MIKE STECHER, GEORGE TELEN, AXEL A VENICE MOBILR HOME & RV PARK WALL, KENNETH	1995	

	N HOLLADA I	ו אט	1995	
2022 2025 2030 2105 2108 2130 2333 2335 2375	DAVIDSON, EMMETTE POOLE, ROBERT E MCDONALD, CHARLES DOCHOW, PAUL K GIZDAVICH, AGNES OCCUPANT UNKNOWNN TAYLOR, JIM LOWE, VIRGIL B SNABEL, JOHN R SEASIDE SERVICE OIL CO	DR 1	1995	

N ROOSEVELT DR 1995

1725	DEBRAS SURPLUS TRUE VALUE
0044	J B SALES CO
2041	M & F PLUMBING
2080	LYNCH, RAY
2315	BEATTY, MARCIA

24TH AVE 1992

600 WREGE, WILLIAM 616 BANG, CHARLES A 715 WUCHERPFENNIG, STEVEN L 1032 ELIASON, DOUGLAS LOVEDAY, GREGORY NOVARA, STANLEY M SHEPHERD, MIKE TELEN, AXEL A

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>

✓ - Cole Information

N ROOSEVELT DR 1992

2051 2080	CLINE, JACK LYNCH, RAY

Source Polk's City Directory

24TH AVE 1986

40

24TH AV (SEASIDE)—FROM NEAWANNA ST EAST 1 WEST OF HOLLADAY DR

ZIP CODE 97138 580 Gill Harold Mrs © 738-6218 600 Wrege Wm © 738-7011 616 Alburus Peter 738-7906 NEAWANNA ST INTERSECTS 715★Huntsmn Ruby © 738-6748 OREGON ST INTERSECTS 840 International Woodworkers Of Am Local No 3-4 738-7381 841 Sopko Welding mach shop 738-9505 PINE ST INTERSECTS

24TH AVE 1986

24TH AV (SS)—Contd

941 Seaside Service Oil Co

738-6326

QUEEN ST INTERSECTS

1032 Venice Mobile Home Park

738-8851

A★Croy John

B★Rasmussen Tom

C Vacant

D Butler Donald

E Larson Ed 738-3126

F Green Jack 738-3410

G Barnes Ross F 738-8851

G★Barnes Heidi Jo 738-9345

Spaces

1 Tellen A A 738-7598

2 Edwards Lee W 738-6877

3★Sellers Norman E 738-9070

4 Sanderson J

5 Skogan Ruth A 738-5986

6★Furman Clara L 738-6617

7 Peterson Harold

9★Stahley Al 738-7920

10★Stahley Tom

11 Wilson Wm E 738-7986

12 Gault Al

25★Robertson Dave ⊚

738-5914

N ROOSEVELT DR INTERSECTS

<u>Source</u>

Polk's City Directory

N HOLLADAY DR 1986

N HOLLADAY DR (SS)—Contd
2140★Christensen Raymond A
738-3236
VILLAGE TER INTERSECTS
2260★Posey Lloyd © 738-5627
INDIAN WAY INTERSECTS
2333 Lowe Virgil B © 738-6576
2335 Snabel John R 738-7274
2337 Vacant
2375 Service Oil Co (Plant)
738-6326

24TH AV INTERSECTS

<u>Source</u> Polk's City Directory

N ROOSEVELT DR 1986

40
13TH AV INTERSECTS
14TH AV INTERSECTS
1450 Seaside Adventist Church
738-8071
1475 Nelson Wm C ◎ 738-6229
15TH AV INTERSECTS
1545 West Laurie M ⊚ 738-6648
1575★Johnson Larry
16TH AV INTERSECTS
1625 Hoyer's Sales And Service
saws 738-7131
1650 Hogeland Larry © 738-8526
17TH AV INTERSECTS
1725 Debra's Surplus retail store
738-9777
1801 Carpenter Harold H ⊚
738-5325
1985 Seaside Sch Dist 10c (Bus
Barns) 738-7150

N ROOSEVELT DR 1986

2041 M & F Plumbing plmb contr 938-8966 2051★Cline Jack 738-3688 2080 Lynch Ray Service gas sta 738-5610 Lynch Helen L Mrs © 738-5610 2315 Crow David M 738-8891 24TH AV INTERSECTS 24TH AVE

1981

40

25TH AV (SEASIDE)—FROM NEAWANNA ST EAST 1 NORTH OF 24TH AV

ZIP CODE 97138

738-6815

1025 Tagg Jerry D @ 738-7059

561★Graham Dean © 601 Griffin Frank summer res 627 Larson Cameron A @ 738-5966 MASON ST INTERSECTS 630 Gwin Homer E @ 738-7466 631 Larfield John M © 738-7588 NEAWANNA ST INTERSECTS 724 Rush Darrell E @ 738-7865 725★Cole Kenneth C 738-9606 OREGON ST INTERSECTS 802 Cole Robt E 738-7685 824 Thornton Nancy J © 738-6861 825 Vacant PINE ST INTERSECTS 980★Krizan Timothy H 738-9509 QUEEN ST INTERSECTS 1001 Ray Morris D @ 738-6864 1024 Schaeffer Halina L Mrs ©

1524 Mattox Jack L ⊚ 738-3129
1525 No Return
16TH AV INTERSECTS
1604 Pratt James H @ 738-6404
1610 Mewhinney Joan © 738-5913
1616 Bidle Robt W © 738-8934
1623 Poe Luther S ⊚ 738-7324
17TH AV INTERSECTS
1715 Collins Marilyn Mrs
1762 Tuhy John E III
1901 Seaside High School 738-5586
2022 No Return
2025 Poole Robt E @ 738-6911
2030*Artz Kathy 738-9325
2105 Van Vleet Bette Mrs ©
738-6679
2108 Gizdavich John M ©
738-5640
2120 Smith Beatrice J Mrs ©
738-5746
2130 Evans John R 738-9607
2140 Cooper Betty 738-3133
VILLAGE TER INTERSECTS
2260 Starr Michl D © 738-5934
INDIAN WAY INTERSECTS
2333 Lowe Virgil B © 738-6576
2335 Tremayne Raymond ©
738-7274
2337 Vacant
2375 Service Oil Co (Plant)
738-6326
24TH AV INTERSECTS

Source
Polk's City Directory

N ROOSEVELT DR 1981

40

13TH AV INTERSECTS
14TH AV INTERSECTS

1450 Seaside Adventist Church 738-8071

1475 Nelson Wm C ⊚ 738-6229 15TH AV INTERSECTS

1545 Anderson Leone © 738-6648

1575★Sthealin Joan G 738-5343 16TH AV INTERSECTS

1625 Hoyer's Sales And Service saws 738-7131

1650 Hogeland Larry © 738-8526 17TH AV INTERSECTS

1725 Seaside Blacksmith Shop 738-5201

> Merlin Muffler Shop 738-5201

1801 Hamm Eug V ◎ 738-5325

1985 Seaside Sch Dist 10c (Bus Barns) 738-7150

2041 Vacant

2051 Heine Gary A @ 738-9054

2080 Lynch Ray Service gas sta 738-5610

Lynch Helen L Mrs © 738-5610

2315 Crow David 738-8891 24TH AV INTERSECTS

<u>Source</u>

Polk's City Directory

24TH AVE

1976

24TH AV —FROM NEAWANNA ST EAST 1 WEST OF N HOLLADAY DR

ZIP CODE 97138
580 Gill H Mrs summer res ©
590 Snyder Robt
600 Greenup Luther W ©
738-7637
616 No Return
NEAWANNA ST INTERSECTS

24TH AVE 1976

OREGON ST INTERSECTS 840 International Woodworkers Of Am Local No 3-4 738-7381 841 Shell Oil Co (Plant) PINE ST INTERSECTS 941 Standard Oil Co Of California 738-5302 QUEEN ST INTERSECTS 1032 Venice Motel & Trailer Park 738-8851 A★Berry Tim B★Bailey Dru 738-7548 D*Zwald Arnold F*Fosdick Steven **Spaces** 1★Tellen A A 2★Jarvi Lillye 4★Mills Volney © 738-8851 5★Skogan Henry N 738-5986 6★Farris Elmer W 738-7947 7★Richardson Earl 8 Vacant 9★Smart June 10★Morrell Floyd 12★Harriman Wayne M 25★Mc Laren Norman G ⊚ 738-7390 Como Gladys 738-8851 N ROOSEVELT DR

INTERSECTS

Polk's City Directory

N HOLLADAY DR (SS)—Contd	130
28★Schenider Wm	A
29 Picard Frank 738-7858	201
30★Wuest Lyn	210
31★Cleave B	210
32★Herrimann Glen 738-5105	
1324 Reeves Wm R summer res	231
1325 Christian Church 738-5182	20.
14TH AV INTERSECTS	30
1404 Olson Ivar E ⊚ 738-5957	30
1410 Vacant	30
1419 Barker James E @ 738-7539	31
15TH AV INTERSECTS	31
1502★Sargent Raymond C	32
1512 No Return	32
1517★De Gandi Leslie A	32
1518★Tiven Tim ◎	
1519 Vacant	41
1521 Vacant	41
1524★Butcher Al ⊚ 738-7417	41
1595 Larvis F H	4:
16TH AV INTERSECTS	4.
1604 Pratt James © 738-6404	4
1610 Seabolt Jack D @ 738-7753	4
1616 Christensen Lloyd A	-
738-6530	4
1623 Poe Luther S © 738-6110	
17TH AV INTERSECTS	
1715 Miscoe Michl J @ 738-5530	4
1762 Raymond Virginia Mrs ©	
738-5420	4
1901 Seaside Union High School	
738-5586	
2022★Mosar James 738-7614	4
2025 Poole Robt E @ 738-6911	
2105 Van Vleet Bette Mrs ©	
738-6679	
2108 Gizdavich John M @	
738-5640	-
2120 Smith Alan W Jr ©	
738-5746	
2130 Staley Joseph D @ 738-7471	
2140+Leemon G A @ 738-7827	
WILLAGE TER INTERSECTS	
2000 Sigurdson Ray @ 738-7362	
INDIAN WAY INTERSECTS	
2333 Lowe Virgil B @ 738-6576	
2335 Tremayne Raymond ©	
738-7274	
2337★Matthews Dan	
2339 Vacant	
2375 Mobil Oil Co (Plant)	
Service Oil Co (Plant)	
24TH AV INTERSECTS	
	-

N ROOSEVELT DR 1976

40

13TH AV INTERSECTS 14TH AV INTERSECTS

1450 Seaside Adventist Church 738-8071

1475 Nelson Wm C © 738-6229 15TH AV INTERSECTS

1545 Anderson Bernard A © 738-6648

1575 Detta's Alterations 738-6348 Otradovec Henrietta E Mrs © 738-6348

16TH AV INTERSECTS

1625 Hoyer's Sales And Service saws 738-7131

1650 Hogeland Larry © 738-8526 17TH AV INTERSECTS

1725 North West Cream crmry 738-7069

Seaside Blacksmith & Fire Place Shop 738-5201

1801 Hamm Eug V ◎ 738-5325

1985 Seaside Sch Dist 10c (Bus Barns) 738-7150

2041 Vacant

2051★Hubik Thos © 738-6247

2080 Lynch Ray Service gas sta 738-5610 Target Street

Cross Street

<u>Source</u>

Polk's City Directory

N ROOSEVELT DR

1976

Lynch Ray H © 738-5610 2315 Doughty Joseph 738-6678 24TH AV INTERSECTS

24TH AVE 1972

40 24TH AV —FROM NEAWANNA ST EAST, 1 WEST OF N HOLLADAY DR

ZIP CODE 97138 580 Gill H Mrs summer res © 600 Greenup L Wayne @ 738-7637 616 Paulsen Clement © 738-7202 NEAWANNA ST INTERSECTS OREGON ST INTERSECTS 840 International Woodworkers Of Am Local No 34 738-7381 841 Seaside Oil Co 738-5372 Shell Oil Co PINE ST INTERSECTS 941 Standard Oil Co Of California 738-5302 QUEEN ST INTERSECTS 1032 Venice Motel & Trailer Park 738-9942 Baugh Orville O @ 738-7935 N ROOSEVELT DR INTERSECTS

Source Polk's City Directory

1517 Clark Stanley D 738-5185
1518 Teevin Perry F @ 738-5350
1519 Johnson Mertel 738-8238
1521 Riddle F Dick
1524 Cowden Lonnie D ©
738-5427
1525 Metz Ronald E 738-7082
16TH AV INTERSECTS
1604 Vacant
1610 Seabolt Jack D @ 738-7753
1616 Christensen Lloyd A ©
738-6530
1623 Poe Luther S © 738-6110
17TH AV INTERSECTS
1715 All-Star Janitorial Service
738-8072
Cates Howard W @ 738-8072
1762 Roehm Charles © 738-5420
1901 Seaside Union High School
738-5586
2022 Akers Aldyth Mrs ©
738-5377
2105 Van Vleet Bette Mrs ©
738-6679

Polk's City Directory

N HOLLADAY DR 1972

2108 Gizdavich John M © 738-5640 2120 Smith Alan W Jr © 738-5746 2130 Ward Margt B Mrs © 738-5229 2140 Leemon Glenn © 738-7827 VILLAGE TER INTERSECTS 2260 Sigurdson Ray © 738-7362 INDIAN WAY INTERSECTS 2333 Lowe Virgil B @ 738-6576 2335 Tremayne Raymond 2337 Viles Robt E 738-7050 2339 Seaside Street Dept Shop 2375 Mobil Oil Co Service Oil Co (Plant) 24TH AV INTERSECTS

Source
Polk's City Directory

N ROOSEVELT DR 1972

40

13TH	AV	INTERSECTS
14TH	AV	INTERSECTS

1450 Seaside Adventist Church 738-8071

1475 Nelson Wm C © 738-6229 15TH AV INTERSECTS

1545 Anderson Bernard A © 738-6648

1575 Detta's Alterations 738-6348 Otradovec Henrietta E Mrs © 738-6348

16TH AV INTERSECTS

1625 Artistic Enterprises Inc ret paint & wallpaper 738-7131

1650 Carden John T © 738-7418 17TH AV INTERSECTS

1801 Hamm Eug V @ 738-5325

2041 Vacant

2051 Ordway Lyle G @ 738-6283

2080 R & H TV Service 738-5610 Lynch Ray Service 738-5610 Lynch Ray H © 738-5610

2315 Vacant 24TH AV INTERSECTS

Source
Polk's City Directory

24TH AVE 1968

40

24TH AV -FROM NEAWANNA EAST, 1 WEST OF N HOLLADAY DR

---ZIP CODE 97138 600 TRCUCKE GARY @ 738-7556

616 PAULSEN CLEMENT B @ 738-7202

--- OREGON ST INTERSECTS

840 INTERNATL WOODWORKERS

OF AMERICA LOCAL 34

738-7381

841 SEASIDE DIL CO FUEL & HEATING DIL 738-5372

---PINE ST INTERSECTS

941 STANDARD DIL CO OF CALIFORNIA 738-5302

--- QUEEN ST INTERSECTS

1032 VENICE MOTEL &
TRAILER PARK
738-9042

BAUGH DRVILLE O

738-9042

---N ROOSEVELT DR

Source
Polk's City Directory

N HOLLADAY DR 1968

--- 16TH AV INTERSECTS 1604 VACANT 1610 SEABOLT JACK D . 738-7753 1616 CHRISTENSEN LLOYD A . 738-6530 1623 POE LUTHER S 738-6110 --- 17TH AV INTERSECTS 1715 JACASON RUTH B MRS . 738-6234 1762 ROEHM CHARLES 738-5420 1901 SEASIDE UNION HIGH SCHOOL 738-5586 2022 AKERS ALDYTH MRS @ 738-5377 2025 POOLE ROBT E @ 738-6911 2105 VAN VLEET PEGGY MRS 2108 GIZDAVICH JOHN M • 738-5640 2120 SMITH ALAN W JR @ 738-5746 2130 WARD MARGT B MRS @ 738-5229 2140 LEEMON GLENN SUMMER RES 2260 SIGURDSON RAY 738-7362 2333 LOWE VIRGIL B • 738-6576 2335 NO RETURN 2337 VACANT

<u>Source</u>

Polk's City Directory

N HOLLADAY DR 1968

HOLLADAY DR N--CONTD
2375 MOBIL OIL CO 738-5262
SERVICE OIL CO
738-5262
---24TH AV INTERSECTS

Source Polk's City Directory

N ROOSEVELT DR 1968

40 --- 13TH AV INTERSECTS --- 14TH AV INTERSECTS 1475 NELSON WM C . 738-6229 --- 15TH AV INTERSECTS 1545 ANDERSON BERNARD A 738-6648 1575 DETTA'S ALTERATIONS 738-6348 OTRADOVEC HENRIETTA E MRS @ 738-6348 --- 16TH AV INTERSECTS 1625 ARTISTIC ENTERPRISES BLDG CONTRS 1650 CARDEN JOHN T 738-7418 --- 17TH AV INTERSECTS 1801 HAMM EUG V 738-5325 205 LYLE'S GARDEN CENTER 738-5752 ORDWAY LYLE G 2080 R & H TV SERVICE LYNCH RAY SERVICE 738-5610 LYNCH RAY H 2315 MAIN LEONARD J 738-5012 --- 24TH AV INTERSECTS

N. North Forty Hwy 101 and 24th Avenue Seaside, OR 97138

Inquiry Number: 7388409.3

July 13, 2023

Certified Sanborn® Map Report



Certified Sanborn® Map Report

07/13/23

Site Name: Client Name:

N. North Forty Stantec

601 SW 2nd Ave, Suite 1400 Hwv 101 and 24th Avenue

Seaside, OR 97138 Portland, OR 97204

EDR Inquiry # 7388409.3 Contact: Carrie Rackey



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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 # 5B54-4CE3-A07E

PO# NA

N. North 40 Ph I ESA **Project**

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 #: 5B54-4CE3-A07E

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

Library of Congress

✓ University Publications of America

▼ EDR Private Collection

The Sanborn Library LLC Since 1866™

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N. North Forty Hwy 101 and 24th Avenue Seaside, OR 97138

Inquiry Number: 7388409.4

July 12, 2023

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

07/12/23

Site Name: Client Name:

N. North Forty Stantec

Hwy 101 and 24th Avenue 601 SW 2nd Ave, Suite 1400 Seaside, OR 97138 Portland, OR 97204

EDR Inquiry # 7388409.4 Contact: Carrie Rackey



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Stantec 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:	Coordinates:

P.O.# NA **Latitude**: 46.009413 46° 0' 34" North

Project: N. North 40 Ph I ESA **Longitude:** -123.914813 -123° 54′ 53″ West

 UTM Zone:
 Zone 10 North

 UTM X Meters:
 429176.03

 UTM Y Meters:
 5095500.14

Elevation: 5.00' above sea level

Maps Provided:

2020

2017

2014

1973

1949

1939, 1940

1937

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets



Gearhart 2020 7.5-minute, 24000



Tillamook Head 2020 7.5-minute, 24000

2017 Source Sheets



Gearhart 2017 7.5-minute, 24000



Tillamook Head 2017 7.5-minute, 24000

2014 Source Sheets



Gearhart 2014 7.5-minute, 24000



Tillamook Head 2014 7.5-minute, 24000

1973 Source Sheets



Gearhart 1973 7.5-minute, 24000 Aerial Photo Revised 1973



Tillamook Head 1973 7.5-minute, 24000 Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1949 Source Sheets



Gearhart 1949 7.5-minute, 24000 Aerial Photo Revised 1943



Tillamook Head 1949 7.5-minute, 24000 Aerial Photo Revised 1943

1939, 1940 Source Sheets



Astoria 1939 15-minute, 62500



Cape Falcon 1940 15-minute, 62500 Aerial Photo Revised 1936

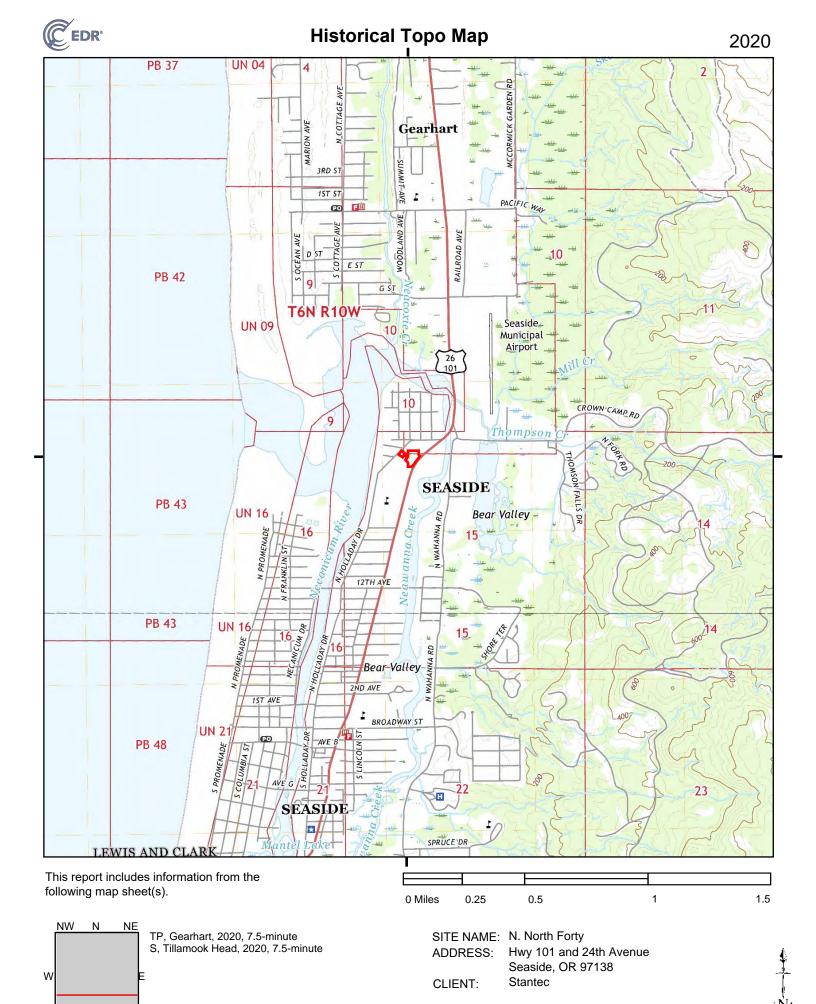
1937 Source Sheets



ASTORIA 1937 15-minute, 50000



CANNON BEACH 1937 15-minute, 50000



SW

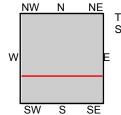
S

SE

SW

S

SE



TP, Gearhart, 2014, 7.5-minute S, Tillamook Head, 2014, 7.5-minute

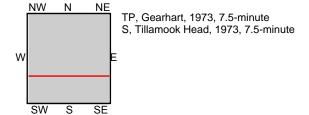
SITE NAME: N. North Forty

ADDRESS: Hwy 101 and 24th Avenue

Seaside, OR 97138

CLIENT: Stantec

This report includes information from the following map sheet(s).



0 Miles 0.25 0.5 1 1.5

SITE NAME: N. North Forty

ADDRESS: Hwy 101 and 24th Avenue

Seaside, OR 97138

CLIENT: Stantec



SITE NAME: N. North Forty

Stantec

ADDRESS:

CLIENT:

Hwy 101 and 24th Avenue

Seaside, OR 97138

TP, Gearhart, 1949, 7.5-minute

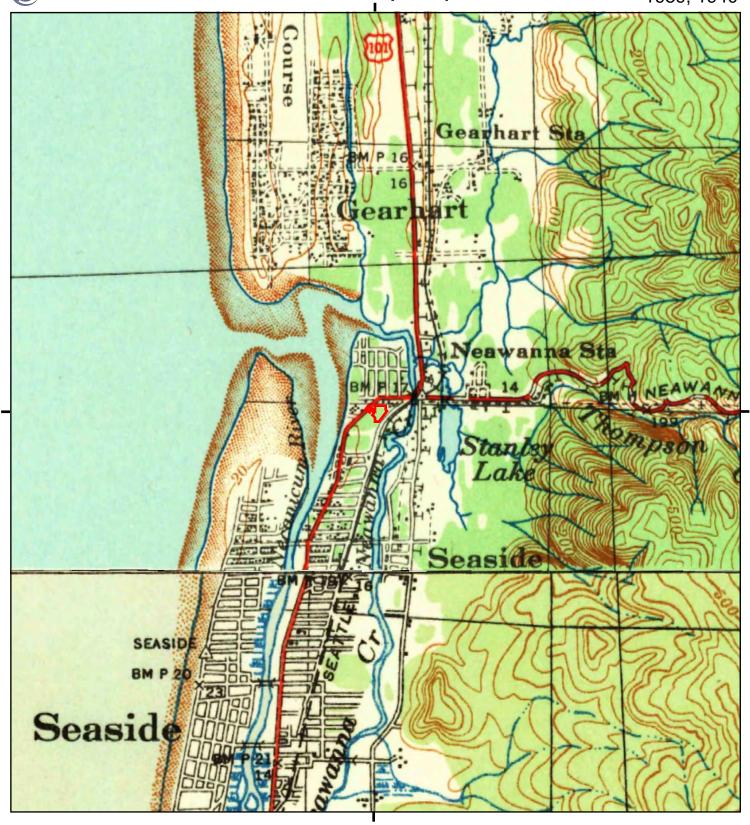
W

SW

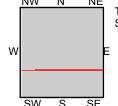
S

S, Tillamook Head, 1949, 7.5-minute

7388409 - 4 page 9



This report includes information from the following map sheet(s).



TP, Astoria, 1939, 15-minute S, Cape Falcon, 1940, 15-minute SITE NAME: N. North Forty

ADDRESS: Hwy 101 and 24th Avenue

0.5

Seaside, OR 97138

CLIENT: Stantec

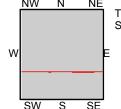
0.25

0 Miles

1.5



This report includes information from the following map sheet(s).



TP, ASTORIA, 1937, 15-minute S, CANNON BEACH, 1937, 15-minute SITE NAME: N. North Forty

ADDRESS: Hwy 101 and 24th Avenue

0.5

Seaside, OR 97138

CLIENT: Stantec

0.25

0 Miles

1.5



Phase II Environmental Site Assessment

North North Forty Property Seaside, Oregon

Cooperative Agreement Number: BF-02J17201

Prepared for:

Sarah Lu Heath, Project Director Columbia Pacific Economic Development District PO Box 1535 St. Helens, OR 97051 Sarahlu@nworegon.org

and

Monica Steele, Clatsop County Grantee Liaison 800 Exchange Street, Suite 410 Astoria, OR 97103 msteele@clatsopcounty.gov

Prepared by:

Stantec Consulting Services Inc. 601 SW 2nd Avenue, Suite 1400 Portland, Oregon 97204

December 19, 2023

Project Number 185706185

Sign-off Sheet

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This document was prepared under the supervision and direction of the key staff identified below.

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Quality Reviewer:	San Hoff
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Introduction December 19, 2023

1.0 INTRODUCTION

On behalf of Clatsop County, Stantec Consulting Services Inc. (Stantec) has prepared this Phase II Environmental Site Assessment (ESA) report for the North North Forty property located in Seaside, Oregon (Property). Funding for the Phase II ESA was provided by Clatsop County's United States Environmental Protection Agency (USEPA) Brownfield Assessment Grant (Cooperative Agreement Number BF-02J17201). The Phase II ESA was conducted in conformance with the master Quality Assurance Project Plan (QAPP) prepared for the Clatsop County Brownfield Project and approved by the USEPA on April 20, 2023 (Stantec 2023a). Additionally, the Phase II ESA was completed in general accordance with the Site-Specific Sampling and Analysis Plan (SSSAP) dated September 15, 2023 (Stantec 2023b).

1.1 PROPERTY DESCRIPTION

The Property is identified by the Clatsop County Tax Assessor as Map Taxlots 61015BA06100 and 61015BA06500 in Seaside, Oregon. Taxlot 61015BA06100 is a grass field with no improvements or active uses except for a gravel covered area in its northern portion that is encroached upon by adjoining sites for equipment storage. Taxlot 61015BA06500 is in use as a gravel/grass driveway/parking area for adjacent residences. The Property is owned by the City of Seaside. The location of the Property is illustrated on **Figure 1**.

1.2 PROPERTY HISTORY

No evidence of past or current use of the Property has been identified, except for parking in the western portion of the Property associated with adjacent residential sites, equipment storage in the northern area of the Property associated with adjacent businesses, and features (asphalt patches and poles likely associated with former soccer nets) that indicate potential recreational uses. Adjoining sites to the north have been in commercial/industrial use including bulk fuel storage since at least the 1950s.

1.3 2023 PHASE I ENVIRONMENTAL SITE ASSESSMENT

A 2023 Phase I ESA completed by Stantec dated August 8, 2023 (Stantec 2023c), identified the following recognized environmental condition (REC):

Adjoining sites to the north and northeast have been used for bulk petroleum storage and fueling since at least the 1950s, including the presence of above ground storage tanks (ASTs) in close proximity to the Property boundary. One north adjoining site (Wilcox & Flegel Oil Co.) is currently in use for bulk petroleum storage/distribution/fueling. No information has been identified regarding environmental assessments to evaluate whether releases have occurred associated with decades of bulk petroleum storage and distribution on the north adjoining sites. The potential for releases to have occurred at the north adjoining sites and for any such releases to have impacted the Property was identified as a REC and a potential vapor encroachment condition (VEC).

Additional assessment was recommended to evaluate whether petroleum releases originating on the north adjoining site may have impacted the Property. While not identified as a REC, isolated piles of soil also were identified on the Property near its northern border during the Phase I ESA site reconnaissance.

Field Sampling Activities December 19, 2023

The volumes of two of the piles were visually observed to be approximately 225 cubic feet each (approximately 2 to 3 feet high and 3 feet wide by 30 feet long). The volume of the third pile was visually observed to be approximately 16,000 cubic feet (approximately 2 to 3 feet high and 80 feet square). The piles were sampled as part of this Phase II ESA.

2.0 FIELD SAMPLING ACTIVITIES

The purpose of this Phase II ESA was to collect soil, groundwater, and soil gas samples to evaluate the REC and potential environmental concerns identified in the 2023 Phase I ESA. The scope of the Phase II ESA sampling activities is described in the subsections that follow. The collection of soil, groundwater, and soil gas samples was completed on October 23, 2023. Each of the sampling locations is shown on **Figure 2**.

2.1 PRE-FIELD ACTIVITIES

2.1.1 Utility Clearance

Prior to subsurface work at the Property, Stantec contacted the Utility Notification Center and requested a public underground utility locate. Additionally, a private utility locator was contracted to explore sample locations for subsurface utilities before boreholes were advanced.

2.1.2 Health and Safety

Stantec prepared a Site-Specific Health and Safety Plan, as required by 40 Code of Federal Regulations 1910.120 to describe field sampling activity safety protocols to be followed during the project. At the start of each day of field work a "tailgate" meeting was held and safety protocols reviewed.

2.2 SAMPLING ACTIVITIES AND SUBSURFACE CONDITIONS

The tasks and field sampling activities described below were performed in general accordance with the approved SAP and QAPP with the following deviations.

- Helium gas was to be introduced into a shroud covering the soil gas probe. However, helium gas was
 not used during sampling because the helium canister valve apparently failed, and the canister was
 empty when put into use. Additional helium could not be obtained due to time constraints.
- Groundwater samples collected for dissolved metals testing were laboratory filtered rather than field filtered.
- Soil gas samples were originally planned to be collected via Geoprobe Post-Run Tubing; however, the soil gas probes consisted of the installation of temporary soil gas sample points as described in the text below.
- The naming conventions specified in the SAP were not reflected on the final laboratory reports. These samples are discussed in the text as they were reported by the laboratory.

Field Sampling Activities December 19, 2023

2.2.1 Soil Sampling

Two direct push soil borings (NF-GP01 and NF-GP02) were placed to evaluate for potential impacts from undocumented releases from the north-adjoining properties that may have migrated onto the Property. These borings were advanced to total depths of 15 feet below ground surface (bgs). One soil sample was collected above the soil groundwater interface at 7 feet bgs in each soil boring and submitted for laboratory analysis. Boring logs for the borings are provided in **Appendix A**.

In addition, a composite soil sample composed of three subsamples was collected by hand auger from each of the three soil piles observed on the northern portion of the Property (sample IDs NF-GP03 through NF-GP05). The samples were collected at a maximum depth of 2 feet beneath the surface of each pile.

Soils in borings NF-GP01 and NF-GP02 were observed continuously during advancement of the borings by a Stantec representative and logged using the Unified Soil Classification System. Field screening for volatile organic compounds (VOCs) was conducted with a field calibrated photoionization detector (PID). Visual/olfactory observations of soil conditions (e.g., staining and/or odor) were recorded in a field notebook and/or on field data sheets.

The soil samples collected from 7 feet bgs in NF-GP01 and NF-GP02 were submitted to the lab but were not initially designated for laboratory analysis due to absence of field indications of impacts (i.e., odors, staining, and/or elevated PID readings); however, based on analytical results from the soil pile composite samples (see Section 4.1), the laboratory was directed to analyze soil samples from NF-GP01 and NF-GP02 for metals to evaluate background concentrations at the Property. Soil samples were collected in accordance with the procedures outlined in the SAP and QAPP (Stantec, 2023a and 2023b, respectively).

Composite soil samples were submitted to Pace Analytical for the following laboratory analyses:

- Gasoline-range organics (GRO) via NWTPH-Gx;
- Diesel- and oil (residual)-range organics (DRO and RRO) via NWTPH-Dx;
- Polycyclic aromatic hydrocarbons (PAHs) via USEPA Method 8270-SIM;
- VOCs via USEPA Method 8260; and
- Eight Resource Conservation and Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) via USEPA Method 6010/7471.

The samples from borings NF-GP01 and NF-GP02 were submitted for analysis of 8 RCRA metals via USEPA Method 6010/7471.

2.2.2 Groundwater Sampling

Groundwater samples were collected from the two direct push borings (NF-GP01 and NF-GP02) to evaluate Property groundwater for potential impacts from undocumented releases from the north-adjoining properties (**Figure 2**). First encountered groundwater was identified between 7.0 feet bgs and 7.5 feet bgs. Groundwater samples were collected by installing a 1-inch diameter polyvinyl chloride (PVC) temporary well with a 1-inch diameter slotted screen. Groundwater samples were collected in accordance with standard operating procedure (SOP) ES4.03 included in the QAPP (Stantec 2023a) using new,

Field Sampling Activities December 19, 2023

disposable down-hole tubing and a peristaltic pump. Groundwater samples were collected using low-flow methods into laboratory-supplied bottles.

Groundwater samples were analyzed for the following:

- GRO via NWTPH-Gx;
- DRO and RRO via NWTPH-Dx;
- VOCs by USEPA Method 8260;
- PAHs by USEPA Method 8270-SIM; and
- Total and dissolved RCRA metals by USEPA Method 6010B/7040.

2.2.3 Soil Gas Sampling

Three soil gas samples (NF-SG01 through NF-SG03) were collected near the northern Property boundary, to evaluate whether undocumented releases from the north-adjoining properties may have migrated to the Property in soil gas.

The temporary soil gas sample probes were installed by advancing direct push borings to a depth of five feet bgs. Dedicated inert tubing was attached to a 6-inch stainless steel soil vapor probe screen and inserted to the base of the boring using a ¾-inch PVC pipe. The PVC pipe was then removed, leaving the vapor probe at the base of the boring. A 1-foot sand filter was installed to cover the vapor probe, and the remaining boring cavity was filled with a hydrated bentonite seal to the ground surface. The sampling train was connected to a one-liter batch certified Summa can as follows: a two-way valve was connected to the inert tubing and a three-way valve was connected in-line between the two-way valve and the Summa canister. Sampling did not occur for at least 30 minutes to allow for subsurface conditions to equilibrate. Three volumes of the sampling apparatus were purged prior to sample collection.

Each soil gas sample was collected in a one-liter Summa canister fitted with a flow controller set to collect the sample at less than 200 milliliters/minute. The initial vacuum on the Summa canister was recorded on the chain of custody prior to sampling. The soil gas sampling points were attached to the Summa canisters with ¼-inch outside diameter Teflon tubing for soil gas sample collection.

Sample train integrity was tested using a shut-in test. Prior to purging, a shut-in test was completed to confirm the air tightness of the sample train. The shut-in test was performed by closing the valve to the sampling port, connecting a syringe to the sample train, and drawing air through the sample train until the pressure gauge showed approximately 25 inches of mercury. The valve to the syringe was then closed, holding the drawn pressure in place. This pressure was held in place for at least five minutes while observing the vacuum gauge for any decrease in vacuum.

Soil gas samples were submitted to Pace Analytical analysis of VOCs by EPA Method TO-15.

2.2.4 Subsurface Conditions

During boring advancement at the Property, soils were logged by Stantec representative and Oregon Registered Geologist Kirk Warner. Soil from each boring was observed for visual and olfactory evidence of impacts. PID readings did not exceed 0.0 parts per million (ppm). No obvious indications of petroleum or hazardous substance impacts were observed in soil borings.

Conceptual Site Model December 19, 2023

Subsurface materials encountered at the Property generally included fine sand. Bedrock was not encountered in any soil boring to the maximum depth explored of 15 feet bgs. Borehole logs are included in **Appendix A**.

3.0 CONCEPTUAL SITE MODEL

The Conceptual Site Model for the Property is summarized below.

1.1 PROPERTY ZONING AND BENEFICIAL WATER USE

The Property is currently vacant. The Property and surrounding area are zoned for mixed commercial and residential use. Future Property use is not known but is anticipated to be multi-family residential and may include mixed commercial use. Water is supplied to the Property by the City of Seaside, and there is currently no beneficial water use at the Property.

3.1 SOURCE EVALUATION

Based on the findings of the August 2023 Phase I ESA, potential sources of contamination for the Property are current and historical fueling/bulk oil storage operations on the north and northeast adjoining sites and undocumented soil piles on the northern portion of the Property.

3.2 EXPOSURE PATHWAY EVALUATION

Based on the planned future use of the Property and availability of a municipal drinking water source, the following exposure pathways will potentially be complete during and/or after Property redevelopment.

<u>Soil – Ingestion, Dermal Contact, and Inhalation and Volatilization to Outdoor Air</u>: There is a possibility that soil piles observed on the Property may have been imported from unknown sources and may contain petroleum products and/or hazardous materials. These exposure pathways are considered potentially complete for current and future Property users and construction and excavation workers and were evaluated by collecting soil samples.

Groundwater – Volatilization to Outdoor Air, Vapor Intrusion into Buildings, Groundwater in Excavation: There is a possibility that operations on the north-adjoining sites have released volatile hazardous substances and/or petroleum constituents to groundwater, which may have migrated to the Property. The planned future use of the Property is multi-family residential. Groundwater is shallow (approximately 7 feet bgs) at the Property and may be encountered during redevelopment activities. These pathways are considered potentially complete for current and future Property users and construction and excavation workers and were evaluated by collecting groundwater samples.

<u>Soil Vapor - Vapor Intrusion</u>: There is a possibility that operations on the north- and northeast-adjoining sites have released volatile hazardous substances and/or petroleum constituents to groundwater which may result in a vapor intrusion risk for the Property. This pathway is considered potentially complete for future Property users and was evaluated by collecting soil gas samples.

Laboratory Testing Results December 19, 2023

3.3 RECEPTOR EVALUATION

Potential receptors consist of future multi-family residents, future occupational workers, and construction/excavation workers that will be involved in planned Property redevelopment.

3.4 SCREENING VALUES

Sampling data is compared to the following Oregon Department of Environmental Quality (DEQ) Risk-Based Concentrations (RBCs) revised May 2018 and amended June 2023.

- Soil RBCs for Ingestion, Dermal Contact, and Inhalation urban residential, occupational, construction worker, excavation worker;
- Soil RBCs for Volatilization to Outdoor Air urban residential and occupational;
- Groundwater RBCs for Volatilization to Outdoor Air urban residential and occupational;
- Groundwater RBCs for Groundwater in Excavation construction and excavation worker;
- Groundwater Chronic RBCs for Vapor Intrusion residential and commercial; and
- Soil Vapor Chronic RBCs for Vapor Intrusion residential and commercial.

4.0 LABORATORY TESTING RESULTS

In the subsections that follow, laboratory testing results are summarized for each media sampled. All laboratory testing was completed in accordance with Stantec's SAP, dated September 15, 2023.

4.1 SOIL TESTING AND SCREENING LEVEL RISK ASSESSMENT RESULTS

Seven soil samples (including one field duplicate of sample NF-GP04 and one matrix spike duplicate [NF-SD-MS1]) were collected from the Property for laboratory analysis. Soil samples were submitted to Pace Analytical, of Mount Juliet, Tennessee for testing. Soil testing data are summarized for detected analytes in **Tables 1-3**. Only analytes detected in at least one sample are included in the tables. The soil sample laboratory analytical reports are provided in **Appendix B**.

4.1.1 Petroleum Hydrocarbons

The three composite soil samples and one field duplicate soil sample were analyzed for GRO, DRO, and RRO. GRO and DRO concentrations detected in the samples did not exceed DEQ clean fill screening values or potentially applicable RBCs. No RBCs have been developed by the DEQ for RRO.

The laboratory data for petroleum hydrocarbons is summarized in **Table 1**.

Laboratory Testing Results December 19, 2023

4.1.2 Volatile Organic Compounds

Very low concentrations of one or more VOCs were detected in three composite soil samples. No VOCs were detected at concentrations above DEQ clean fill screening values or potentially applicable RBCs (**Table 1**).

4.1.3 Polycyclic Aromatic Hydrocarbons

One or more PAHs were detected in three composite soil samples. No PAHs were detected above potentially applicable RBCs. The benzo(a)pyrene toxicity equivalency quotient (TEQ) in NF-GP05 exceeds the DEQ clean fill screening value. A summary of PAH detections in soil is provided in **Table 2**.

4.1.4 Metals

The composite soil samples were analyzed for eight RCRA metals:

- Chromium and selenium were identified in one or more of the composite soil samples at
 concentrations ranging from 2,080 milligrams per kilogram (mg/kg) to 2,990 mg/kg and 3.44
 mg/kg to 15.3 mg/kg, respectively. These concentrations exceed DEQ-published clean
 fill/background screening levels for the Coast Range of 240 mg/kg for chromium and 1.5 mg/kg
 for selenium.
- Lead was detected at a concentration above its clean fill/background screening level in composite sample NF-GP03.
- Arsenic was reported in two of the composite soil samples and the duplicate soil sample at
 concentrations ranging from 12.4 mg/kg to 13.9 mg/kg. These concentrations exceed the soil
 ingestion, dermal contact, and inhalation RBC for urban residential and occupational receptors
 and the clean fill/background screening level of 12 mg/kg.

Based on these results, the lab was directed to analyze soil samples collected at 7 feet bgs in borings NF-01 and NF-02 for metals to evaluate metal concentrations in soil native to the Property. Arsenic, chromium, lead, and selenium were not detected above background screening levels in the two soil samples, and mercury only slightly exceeded its background screening level in NF-GP02-7'.

Due to the concentrations of total chromium reported in the composite soil samples, the primary composite samples with concentrations of total chromium exceeding background screening levels (NF-GP03 and NF-GP04) were further analyzed for hexavalent chromium. Hexavalent chromium was reported in sample NF-GP04 at a concentration of 1.89 mg/kg, which exceeds the soil ingestion, dermal contact, and ingestion RBC for urban residential receptors and the clean fill/background screening level. The laboratory was also directed to analyze the sample with the highest chromium concentration for leachability by the Toxicity Characteristic Leaching Procedure (TCLP) to evaluate potential future waste disposal options. Chromium was not detected in the TCLP sample.

A summary of metal detections in soil is provided in **Table 3**.

QA/QC Sampling and Data Validation December 19, 2023

4.2 GROUNDWATER TESTING RESULTS

Two groundwater samples (and one field duplicate) collected from the Property were submitted for laboratory analysis. Groundwater analytical results are described by analyte group in the subsections that follow. A comparison of groundwater testing results to potentially applicable DEQ RBCs is summarized in **Tables 4** and **5**. Only analytes detected in at least one sample are included in the tables. The Pace Analytical reports are provided in **Appendix C**.

4.2.1 Total Petroleum Hydrocarbons – Groundwater

The two groundwater samples were analyzed for GRO, DRO, and RRO. GRO was detected in one groundwater sample (NF-GW02), and one groundwater sample (NF-GW01 and duplicate sample NF-GW DUPL) had detectable DRO concentrations. Concentrations in the two samples did not exceed the potentially applicable RBCs. Petroleum hydrocarbon analytical data for groundwater samples are summarized in **Table 4**.

4.2.2 Volatile Organic Compounds – Groundwater

The two groundwater samples were analyzed for VOCs. Selected VOCs were detected at very low concentrations in groundwater sample NF-GW01. The detected concentrations were below potentially applicable RBCs. VOC analytical data for groundwater samples is summarized in **Table 4**.

4.2.3 Polycyclic Aromatic Hydrocarbons – Groundwater

The two groundwater samples were analyzed for PAHs. PAHs were not detected in either sample.

4.2.4 Metals – Groundwater

The two groundwater samples were analyzed for total and dissolved RCRA 8 metals. Metals in groundwater data are summarized in **Table 5**. None of the reported total or dissolved metal concentrations in groundwater exceeded potentially applicable DEQ RBCs.

4.3 SOIL GAS TESTING RESULTS

Three soil gas samples and a duplicate sample were collected and analyzed for VOCs by EPA Method TO-15. Concentrations of one or more VOCs were detected in each of the samples. Ethylbenzene was detected above the residential vapor intrusion RBC in sample NF-SG-02 and its field duplicate. Soil gas testing data are summarized for detected concentrations in **Table 6**.

5.0 QA/QC SAMPLING AND DATA VALIDATION

To validate the quality of sampling results, the following quality assurance/quality control (QA/QC) samples were collected during this Phase II ESA:

- One field duplicate soil sample
- One field duplicate groundwater sample
- One field duplicate soil vapor sample

Conclusions December 19, 2023

5.1 FIELD DUPLICATE SAMPLES

To assess data accuracy, the relative percent difference (RPD) was calculated for results of detected compounds in both the duplicates and their respective paired primary sample in excess of five times their respective MRLs. Calculated RPDs are included in the Data Validation report in **Appendix C**.

5.2 DATA VALIDATION

All laboratory reports were validated to verify compliance with the project QAPP, and to confirm the usability of the laboratory data. All data was deemed usable with the data qualifications indicated in **Tables 1-6**. Data validation reports are included as **Appendix C**.

6.0 CONCLUSIONS

Stantec completed a Phase II ESA of the North North Forty Property located in Seaside, Clatsop County, Oregon. Groundwater and soil gas samples were collected near the northern Property boundary to evaluate the potential for offsite petroleum bulk storage to have impacted the Property. No significant concentrations of petroleum constituents were detected in the groundwater samples. The VOC ethylbenzene was detected at a concentration above the DEQ residential vapor intrusion RBC.

Elevated concentrations of several metals were identified in composite samples from soil piles observed in the northern area of the Property. The estimated total volume of the three Property soil piles is 600 cubic yards. Each of the soil piles contained one or more metals at concentrations above DEQ-published clean fill standards/background screening levels. Arsenic and hexavalent chromium were detected above DEQ urban residential and occupational RBCs for soil ingestion, dermal contact, and inhalation. For comparison, soil collected at 7 feet bgs was also analyzed for metals. Metals did not exceed background concentrations in these samples collected from presumed native material at depth. The benzo(a)pyrene TEQ also exceeded its clean fill screening value in composite soil sample NF-GP05.

7.0 RECOMMENDATIONS

Additional data is needed to determine appropriate environmental actions to ensure that future urban residential receptors are not exposed to contaminant concentrations that may pose a risk to their health:

- Additional soil gas sampling is recommended to confirm the presence and evaluate the extent of VOCs detected at the Property.
- Additional soil sampling is recommended to evaluate the spatial extent of elevated metals and benzo(a)pyrene identified in the soil piles and the site as a whole.

Limitations December 19, 2023

8.0 LIMITATIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec's professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

9.0 REFERENCES

- Stantec 2023a. Master Quality Assurance Project Plan (Revision 0) Clatsop County EPA Brownfield Community Wide Assessment Grant. Cooperative Agreement No. BF-02J17201. March 6, 2023.
- Stantec 2023b. Site-Specific Sampling and Analysis Plan, Phase II Environmental Assessment, North North Forty Property, Astoria, Oregon. September 15, 2023.
- Stantec 2023c. N. North Forty Property, Seaside, Oregon, Phase I Environmental Site Assessment. August 8, 2023.

TABLES



TABLE 1 Soil Sample Analytical Results - Total Petroleum Hydrocarbons and Detected Volatile Organic Compounds North North Forty Property Highway 101 Seaside, Oregon

Sample Location	Date Sampled	NWTPH-Gx (Gasoline)	NWTPH-Dx (Diesel)	NWTPH-Dx (Motor Oil)	1,2,4-Trimethyl- benzene	4-Methyl-2- pentanone	Acetone	Ethylbenzene	p-Isopropyl- toluene	Toluene	Xylenes, Total
NF-GP03	10/23/2023	3.11 J	7.18	27.6	0.00456 J	0.0136 J	0.0716 U	0.00182 J	0.0162	0.00388 J	0.0287
NF-GP04	10/23/2023	2.06 J	8.25 U	31.6 J	0.00234 U	0.00337 U	0.0540 U	0.00109 U	0.00377 U	0.00411 J	0.00744 J
NF-SD-DUP11 (FD of NF-GP04)	10/23/2023	1.21 J	7.19 J	74.9	0.00182 U	0.00263 U	0.0421 U J3	0.000850 U	0.00294 U	0.00150 U	0.00546 J
NF-GP05	10/23/2023	2.01 J	32.2	148	0.00207 U	0.00322 J	0.108	0.000966 U	0.00478 B J	0.00171 U	0.00954
Clean Fill Screening Values		31	1,100	NA	10	9.7	1.2	0.22	NA	23	1.4
Soil Ingestion, Dermal Contact, and In - Urban Residential	halation RBC	2,500	2,200	NA	860	NA	NA	110	NA	12,000	2,900
Soil Ingestion, Dermal Contact, and In - Occupational	halation RBC	20,000	14,000	NA	6,900	NA	NA	150	NA	88,000	25,000
Soil Ingestion, Dermal Contact, and In -	halation RBC	9,700	4,600	NA	2,900	NA	NA	1,700	NA	28,000	20,000
Soil Ingestion, Dermal Contact, and In - Excavation Worker	halation RBC	NA	NA	NA	81,000	NA	NA	49,000	NA	770,000	560,000
Volatilization to Outdoor Air RBC - Urban Residential		5,900	NA	NA	NA	NA	NA	85	NA	NA	NA
Volatilization to Outdoor Air RBC - Oc	cupational	69,000	NA	NA	NA	NA	NA	160	NA	NA	NA

Notes:

All results expressed as milligrams per kilogram

Additional VOCs not included in this table were reported as non-detect for all samples

bold = indicates concentrations detected above method detection limits

FD = field duplicate

NA = Not Available, no screening value is listed for this analyte.

VOCs = volatile organic compounds

J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.

U = Not detected above the reported value

B = Analyte was detected in the method blank

Clean Fill Screening Values, Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

TABLE 2 Soil Sample Analytical Results - Detected Polycyclic Aromatic Hydrocarbons North North Forty Property Highway 101 Seaside, Oregon

Sample ID	Date Sampled	Acenaphthylene	Anthracene	Benzo(a)anthracen e	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene		Indeno(1,2,3- cd)pyrene	Phenanthrene	Pyrene	Benzo[a]- pyrene TEQ
NF-GP03	10/23/2023	0.00232 U	0.00247 U	0.00342 J	0.00558 J	0.00726	0.00706	0.00231 U	0.00469 J	0.00185 U	0.00753	0.00621 J	0.00319 J	0.00782	0.0073
NF-GP04	10/23/2023	0.00268 U	0.00285 U	0.0131	0.0201	0.0211	0.0221	0.00641 J	0.0136	0.00263 J	0.0294	0.0196	0.00906	0.0325	0.028
NF-SD-DUP11 (FD of NF-GP04)	10/23/2023	0.00232 U	0.00247 U	0.00779	0.0133	0.0145	0.0192	0.00378 J	0.0084	0.00325 J	0.0153	0.0125	0.00725	0.0167	0.020
NF-GP05	10/23/2023	0.00785	0.00679	0.0503	0.102	0.103	0.105	0.0322	0.068	0.012	0.0874	0.104	0.0232	0.109	0.14
Clean Fill Screening Values		120	6.8	0.73	0.11	1.1	25	11	3.1	0.11	10	1.1	NA	10	0.11
Soil Ingestion, Dermal Contact, and Inhal Urban Residential	lation RBC -	NA	47,000	2.5	0.25	2.5	NA	25	250	0.25	4,800	2.5	NA	3,600	0.25
Soil Ingestion, Dermal Contact, and Inhal Occupational	lation RBC -	NA	350,000	21	2.1	21	NA	210	2,100	2.1	30,000	21	NA	23,000	2.1
Soil Ingestion, Dermal Contact, and Inhal Construction Worker	lation RBC -	NA	110,000	170	17	170	NA	1,700	17,000	17	10,000	170	NA	7,500	17
Soil Ingestion, Dermal Contact, and Inhal Excavation Worker	lation RBC -	NA	NA	4,800	490	4,900	NA	49,000	490,000	490	280,000	4,900	NA	210,000	490
Volatilization to Outdoor Air RBC - Urban	Residential	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatilization to Outdoor Air RBC - Occup	oational	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

All results expressed as milligrams per kilogram
Additional PAHs not included in this table were reported as non-detect for all samples

bold = indicates concentrations detected above method detection limits

shaded gray = indicates concentration exceeds clean fill screening value

FD = field duplicate

NA = Not Available, no screening value is listed for this analyte.

PAHs = polycyclic aromatic hydrocarbons

TEQ = Toxic Equivalence Quotient

J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.

U = Not detected above the reported value

Clean Fill Screening Values, Oregon DEQ April 2019 revision RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

TABLE 3 Soil Sample Analytical Results - Metals North North Forty Property Highway 101 Seaside, Oregon

Sample Location	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Hexavalent Chromium	Lead	Mercury	Selenium	Silver
NF-GP01-7'	10/23/2023	3.29	7.83	0.0566 U	6.59		2.92	0.0216 U	0.918 U	0.153 U
NF-GP02-7'	10/23/2023	3.74	9.61	0.0537 U	6.41		2.83	0.143	0.872 U	0.145 U
NF-GP03	10/23/2023	12.5	42.7	0.0506 U	2,080	0.687 UJ	34.2	0.0193 U	14.7	0.136 U
NF-GP04	10/23/2023	13.9	49	0.0584 U	2,990	1.89 J	30.9	0.0223 U	15.3	0.157 U
NF-SD-DUP11 (FD of NF-GP04)	10/23/2023	12.4	46.1	0.0506 U	2,340		21.2	0.0193 U	10.4	0.137 U
NF-GP05	10/23/2023	4.22	30.9	0.0497 U	46.5		23.8	0.0312 J	3.44	0.134 U
Clean Fill/Background Screening Valu	ues	12	840	0.54	240	0.04	34	0.11	1.5	2.6
Soil Ingestion, Dermal Contact, and Ir - Urban Residential	nhalation RBC	1.0	31,000	160	230,000	0.67	400	47	NA	780
Soil Ingestion, Dermal Contact, and Ir - Occupational	nhalation RBC	1.9	220,000	1,100	NA	6.3	800	350	NA	5,800
Soil Ingestion, Dermal Contact, and Inhalation RBC - Construction Worker		15	69,000	350	530,000	49	800	110	NA	1,800
Soil Ingestion, Dermal Contact, and Inhalation RBC - Excavation Worker		420	NA	9,700	NA	1,400	800	2,900	NA	49,000

Notes:

All results expressed as milligrams per kilogram

bold = indicates concentrations detected above method detection limits

shaded gray = indicates concentration exceeds background screening value

shaded yellow = indicates concentration exceeds background and one or more potentially applicable RBCs

- >Max = Substance is deemed not to pose a risk at any concentration
- -- = sample not analyzed
- FD = field duplicate
- NA = Not Available, no screening value is listed for this analyte.
- J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.
- U = Not detected above the reported value

Clean Fill/Background Screening Values (Coastal Range), Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

TABLE 4

Groundwater Sample Analytical Results - Detected Organic Compounds North North Forty Property Highway 101 Seaside, Oregon

Sample Location	Date Sampled	NWTPH-Gx (Gasoline)	NWTPH-Dx (Motor Oil)	1,2,4- Trimethylbenzene	Ethylbenzene	Naphthalene	n-Propylbenzene	Xylenes, Total
NF-GW 01	10/23/2023	0.0316 U	0.147 J	0.000334 J	0.00069	0.00176 J	0.000227 J	0.000904 J
NF-GW DUPL. (FD of NF-GW 01)	10/23/2023	0.0316 U	0.146 J	0.000322 U	0.000137 U	0.000174 U	0.0000993 U	0.000174 U
NF-GW 02	10/23/2023	0.0388 J	0.0833 U	0.000322 U	0.000137 U	0.000174 U	0.0000993 U	0.000174 U
Volatilization to Outdoor Air RBC - Urb	an Residential	NA	NA	NA	23,000	8,500	NA	NA
Volatilization to Outdoor Air RBC - Occ	cupational	NA	NA	NA	43,000	16,000	NA	NA
Chronic Vapor Intrusion RBC - Reside	ntial	120	NA	560	7.1	11	5,300	780
Chronic Vapor Intrusion RBC - Comme	ercial	NA	NA	2,400	31	50	22,000	3,300
GW in Excavation RBC - Construction Worker	& Excavation	14,000	NA	6,300	4,500	500	NA	23,000

Notes:

All results expressed as micrograms per liter

Additional VOC and TPH analytes not included in this table were reported as non-detect for all samples

bold = indicates concentrations detected above method detection limits

FD = field duplicate

GW = groundwater

NA = Not Available, no screening value is listed for this analyte.

TPH = total petroleum hydrocarbons

VOC = volatile organic compound

J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.

U = Not detected above the reported value

Clean Fill Screening Values, Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

TABLE 5 Groundwater Sample Analytical Results - Metals North North Forty Property Highway 101 Seaside, Oregon

Sample ID	Date	Ars	enic	Bar	ium	Cadi	mium	Chro	mium	Le	ead	Mer	cury	Sele	nium	Sil	lver
Gap.G 12	Sampled	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
NF-GW 01	10/23/2023	0.00440 U	0.00440 U	0.0282	0.00491 J	0.000479 U	0.000479 U	0.00945 J	0.00140 U	0.00299 U	0.00299 U	0.000100 U	0.000100 U	0.0228	0.00735 U	0.00154 U	0.00154 U
NF-GW DUPL. (FD of NF-GW 01)	10/23/2023	0.00440 U	0.00440 U	0.0228	0.00125 J	0.000479 U	0.000479 U	0.00427 J	0.00140 U	0.00299 U	0.00299 U	0.000100 U	0.000100 U	0.00735 U	0.00735 U	0.00154 U	0.00154 U
NF-GW 02	10/23/2023	0.00440 U	0.00440 U	0.0116	0.00955	0.000479 U	0.000479 U	0.00382 J	0.00332 J	0.00299 U	0.00299 U	0.000100 U	0.000100 U	0.0182	0.00735 U	0.00154 U	0.00154 U
Urban Residential Volatilization to Outdo	or Air RBC	NV	NV	NV	NV	NV	NV	NA	NA	NV	NV	NV	NV	NA	NA	NV	NV
Occupational Volatilization to Outdoor Ai	r RBC	NV	NV	NV	NV	NV	NV	NA	NA	NV	NV	NV	NV	NA	NA	NV	NV
Chronic Vapor Intrusion RBC - Residenti	al	NV	NV	NV	NV	NV	NV	NA	NA	NV	NV	2.6	2.6	NA	NA	NV	NV
Chronic Vapor Intrusion RBC - Commerc	cial	NV	NV	NV	NV	NV	NV	NA	NA	NV	NV	11	11	NA	NA	NV	NV
Construction & Excavation Worker GW i RBC	n Excavation	6,300	6,300	NA	NA	130,000	130,000	NA	NA	NV	NV	NV	NV	NA	NA	1,100,000	1,100,000

Notes:

All results expressed as micrograms per liter **bold** = indicates concentrations detected above method reporting limits

FD = field duplicate

NA = Not Available, no screening value is listed for this analyte.

NV = This chemical is considered "nonvolatile" for purposes of the exposure calculations

J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.

U = Not detected above the reported value

RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

TABLE 6 Soil Vapor Sample Analytical Results - Detected Volatile Organic Compounds North Forty Property Highway 101 Seaside, Oregon

Sample Location	Date Sampled	1,1,2-Trichloro- trifluoroethane	1,2,4- Trimethyl- benzene	1,3,5- Trimethyl- benzene	2,2,4- Trimethyl- pentane	2-Butanone	2-Propanol	4-Ethyl- toluene	Acetone	Benzene	Carbon disulfide	Dichloro- difluoro- methane	Ethanol	Ethyl- benzene	Heptane	Isopropylb enzene	m&p-Xylene	Butyl	Methylen e Chloride	o-Xylene	Propene	Toluene	trans-1,2- Dichloro- ethene	Trichloro- fluoromethan e	Xylenes, Total
NF-SG-01	08/17/2023	0.608 U	3.28	1.02	0.621 U	149	14.9	1.05	63.7	1.44	1.02	0.678 U	40.3	22.8	1.99	1.82	185	18.4	5.17	64.2	0.16 U	5.5	0.267 U	1.89	185
NF-SG-02	08/17/2023	3.04 U	5.64	1.91 U	3.11 U	132	22.8	1.92 U	886	7.92	1.59 U	3.39 U	154	101	2.13 U	6.78	886	2.72 U	11.3	280	15.8	1.64 U	3.96	2.3 U	886
NF-SG-DUP1 (FD of NF-SG-02)	08/17/2023	3.79	6.23	2.78	1.42	131	7.96	1.85	844 J	0.767	0.622 U	2.73	13.3 B	108	4.54	6.19	899	5.11 U	0.694 U	302	2.15 U	3.68	0.793 U	3.07	899
NF-SG-03	08/17/2023	3.04 U	1.87 U	1.91 U	3.11 U	166	3.24 U	1.92 U	77.9	1.14 U	1.59 U	3.39 U	25.8 B	1.81 U	2.13 U	1.91 U	2.93 U	2.72 U	1.7 U	1.79 U	18.6	1.64 U	1.34 U	2.3 U	2.93 U
Chronic Vapor Intrusion RBC - Resid	dential	170,000	2,100	2,100	NA	170,000	7,000	NA	NA	12	24,000	3,500	NA	37	14,000	14,000	3,500	1,000	3,400	3,500	100,000	170,000	1,400	NA	3,500
Chronic Vapor Intrusion RBC - Com	mercial	730,000	8,800	8,800	NA	730,000	29,000	NA	NA	52	100,000	15,000	NA	160	58,000	58,000	15,000	4,400	41,000	15,000	440,000	730,000	5,800	NA	15,000

Notes:

All results expressed as micrograms per cubic meter
Additional analyses not included in this table were reported as non-detect for all samples
bold = indicates concentrations detected above method detection limits
shaded yellow = indicates concentration exceeds one or more potentially applicable RBCs
FD = field duplicate
NA = Not Available, no screening value is listed for this analyte.

J= The result is an estimated value; *+* indicates a potential high bias and *-* indicates a potential low bias. U= Not detected above the reported value

RBCs = Oregon DEQ Risk-Based Concentrations, Revision: May 2018 amended June 2023

FIGURES





Approximate Property Boundary

2,000 Feet (At original document size of 8.5x11) 1:24,000



Stantec

Project Number Seaside, OR

Clatsop County Phase II ESA North North 40 Property, Seaside, OR

Property Location Map





Notes
1. Coordinate System: NAD 1983 StatePlane Oregon
North FIPS 3601 Feet
2. Data Sources:
3. Background: Sources: Esri, HERE, Garmin, Intermap,
increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN,
GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

- Approximate Property Boundary
- ▲ Soil Gas Probe Location
- Boring Location for Groundwater Sample

Collection

Boring Location for Soil Sample Collection







 Project Location
 Project Number

 Seaside, OR
 185706185

 Client/Project
 185706185

Clatsop County Phase II ESA North North 40 Property, Seaside, OR

Figure No.

Property Sampling Locations

APPENDIX A

Boring Logs



PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon NF-GP-01 PAGE 1 OF 1 PROJECT NUMBER: **185706185**

DRILLING / INSTALLATION:

STARTED: **10/23/23** COMPLETED: 10/23/23

DRILLING COMPANY: **Steadfast** DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push SAMPLING EQUIDMENT: Continuous Linor NORTHING (ft): EASTING (ft): LAT: LONG: GROUND ELEV (ft): TOC ELEV (ft):

INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): 15.0

BOREHOLE DEPTH (ft): 15.00 STATIC DTW (ft): 7.3 WELL CASING DIA. (in): 1 BOREHOLE DIA. (in): 2

Į	SAMPLING	EQU	IPMEN	NT: Continuous Liner	LOG	GED BY: Kir	k War	ner		CHEC	(ED BY:	
	Time & Depth (feet)	Graphic Log	nscs	Description	Sample	1	Measured Recov. (feet)		Headspace PID (units)	Depth (feet)	Borehole Backfill	
	-		SP- SM	SILTY SAND WITH GRAVEL ; SP-SM; brown and gray; moist					<u>+</u>	-		
	-		SP	SAND TRACE SILT; SP; brown to gray; moist			3/5		0.0	-		
	5-									5-	Temp 1 PVC w open be	ell in 🛮 l
1/23	- -					NF-GP-01-7 @ 1030	5/5		0.0	-		
GEO FORM 304 GINT-BORING-LOGS_N-40_20231114.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/14/23	10 - - -						5/5		0.0	10 — - - -	Screen 10-15' l	bgs
31114.	15-			Borehole terminated at 15 feet.					0.0	15		
NRM 304 GINT-BORING-LOGS_N-40_2023	- - -			Dorenote terminated at 13 feet.								
GEO FI												

PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon NF-GP-02 PAGE 1 OF 1 **PROJECT NUMBER: 185706185** NORTHING (ft): EASTING (ft):

LAT:

DRILLING / INSTALLATION:

10/23/23 COMPLETED: 10/23/23 STARTED:

DRILLING COMPANY: Steadfast DRILLING EQUIPMENT: Geoprobe DRILLING METHOD: Direct Push

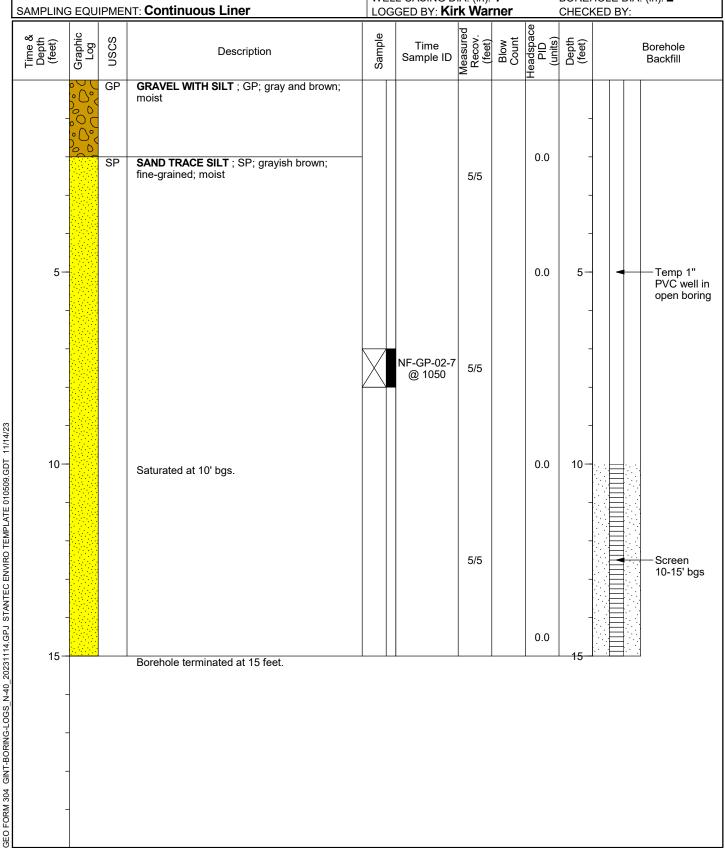
GROUND ELEV (ft): INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): 15.0 STATIC DTW (ft): 7.0

WELL CASING DIA. (in): 1

TOC ELEV (ft): BOREHOLE DEPTH (ft): 15.00

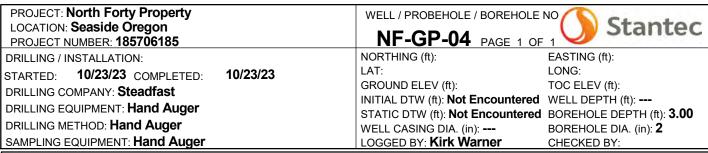
BOREHOLE DIA. (in): 2

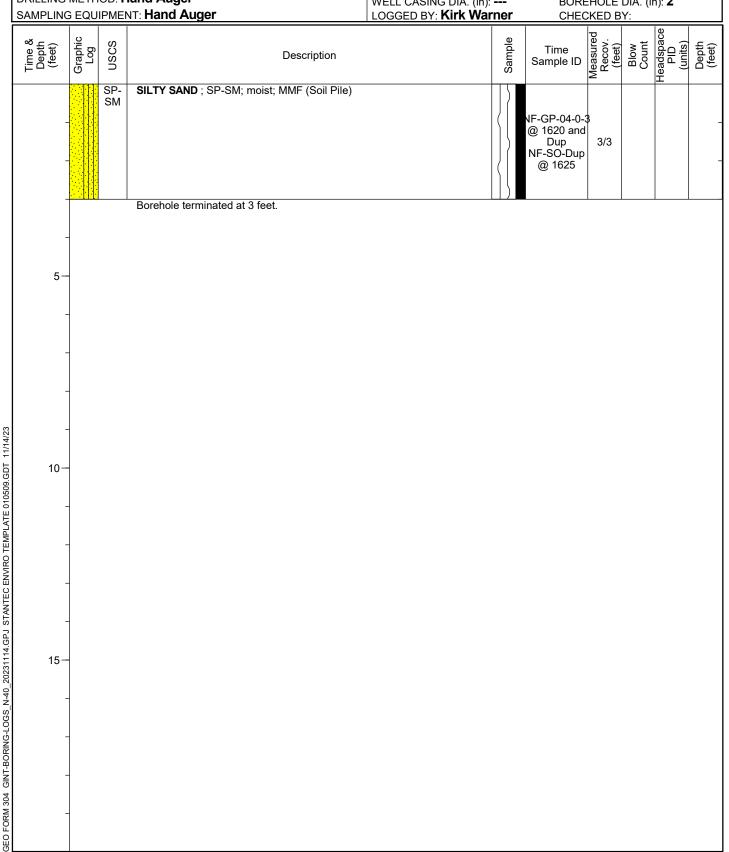
LONG:



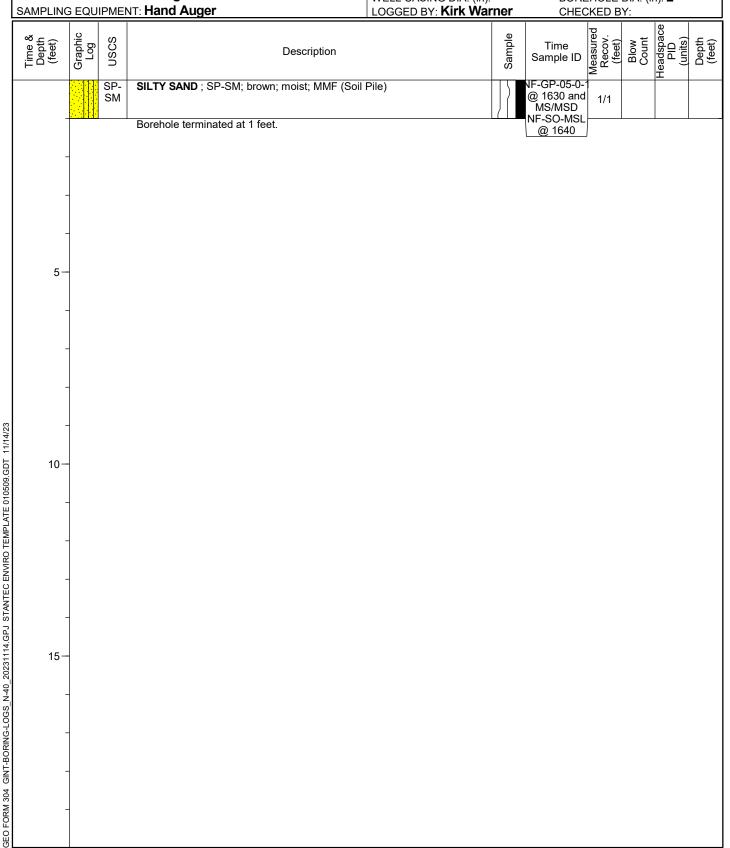
PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon **NF-GP-03** PAGE 1 OF 1 PROJECT NUMBER: **185706185** NORTHING (ft): EASTING (ft): DRILLING / INSTALLATION: LAT: LONG: STARTED: **10/23/23** COMPLETED: 10/23/23 GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: **Steadfast** INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): ---DRILLING EQUIPMENT: Hand Auger STATIC DTW (ft): Not Encountered BOREHOLE DEPTH (ft): 2.00 DRILLING METHOD: Hand Auger WELL CASING DIA. (in): ---BOREHOLE DIA. (in): 2

				ıand Auger ∖⊺: Hand Auger	WELL CASING DIA. (in): LOGGED BY: Kirk Warner	BOREHOLE DIA. (in): 2 CHECKED BY:
	Time & Depth (feet)	Graphic Log	nscs	Description	Sample	_ Φ
	-		SP- SM	SILTY SAND; SP-SM; moist; MMF (Soil Pile)		NF-GP-03-0-2 @ 1650 2/2
	-			Borehole terminated at 2 feet.		
	-					
	5-					
	-	-				
	-					
	-	_				
/14/23	-	-				
DT 11	10-	-				
)509.G						
TE 01(-	_				
MPLA	_					
RO TE						
ENVI	-	_				
ANTE(
PJ ST	-					
114.G	15-					
20231						
N-40	-	-				
LOGS						
RING-	-	-				
GEO FORM 304 GINT-BORING-LOGS_N-40_20231114.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/14/23	-					
104 GII						
ORM 3	-	_				
SEO F						
~ L						





PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon NF-GP-05 PAGE 1 OF 1 PROJECT NUMBER: **185706185** NORTHING (ft): EASTING (ft): DRILLING / INSTALLATION: LAT: LONG: **10/23/23** COMPLETED: 10/23/23 STARTED: GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: Steadfast INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): ---DRILLING EQUIPMENT: Hand Auger STATIC DTW (ft): Not Encountered BOREHOLE DEPTH (ft): 1.00 DRILLING METHOD: Hand Auger WELL CASING DIA. (in): ---BOREHOLE DIA. (in): 2 SAMPLING EQUIPMENT: Hand Auger LOGGED BY: Kirk Warner CHECKED BY:



PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon PROJECT NUMBER: 185706185 **NF-SG-01** PAGE 1 OF 1 NORTHING (ft): EASTING (ft): DRILLING / INSTALLATION: LAT: LONG: STARTED: **10/23/23** COMPLETED: 10/23/23 GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: **Steadfast** INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): ---DRILLING EQUIPMENT: Geoprobe STATIC DTW (ft): Not Encountered BOREHOLE DEPTH (ft): 5.00

			lirect Push ∖⊤: Continuous Liner	WELL CASING DIA. (in): LOGGED BY: Kirk War		BORE	HOLE KED B	DIA. (iı Y:	n): 2	
Time & Depth (feet)	Graphic Log	nscs	Description		Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth
	D	GW	GRAVEL; GW							
		SP	SAND TRACE SILT ; SP; moist							
							2.5/5			
5-			Borehole terminated at 5 feet.							
10-										
	-									
·										
15-										
	-									

PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon **NF-SG-02** PAGE 1 OF 1 PROJECT NUMBER: **185706185** NORTHING (ft): EASTING (ft): DRILLING / INSTALLATION: LAT: LONG: STARTED: **10/23/23** COMPLETED: 10/23/23 GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: **Steadfast** INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): ---DRILLING EQUIPMENT: Geoprobe STATIC DTW (ft): Not Encountered BOREHOLE DEPTH (ft): 5.00 DRILLING METHOD Direct Push

			orect Push NT: Continuous Liner	WELL CASING DIA. (in): LOGGED BY: Kirk War	 ner	BORE CHFC	HOLE KED B	DIA. (ir Y:	1): 2	
Time & Depth (feet)			Description		Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
		GP	GRAVEL SOME SILT ; GP; gray and brown							
		SP	SAND TRACE SILT ; SP; moist							
							3/5			_
	-									-
5			Borehole terminated at 5 feet.							-5-
	_		Boldriold terminated at 0 look.							
7.53										
10 10 TO	_									
: 010509.G										
EMPLATE										
ENVIRO										
STANTEC										
114.GPJ										
N-40_2023										
EO FORM 304 GINT-BORING-LOGS_N-40_20231114.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/14/23 11/14/23										
INT-BORIN										
RM 304 G										
01 P										

PROJECT: North Forty Property WELL / PROBEHOLE / BOREHOLE NO Stantec LOCATION: Seaside Oregon **NF-SG-03** PAGE 1 OF 1 PROJECT NUMBER: 185706185 NORTHING (ft): EASTING (ft): DRILLING / INSTALLATION: LAT: LONG: STARTED: **10/23/23** COMPLETED: 10/23/23 GROUND ELEV (ft): TOC ELEV (ft): DRILLING COMPANY: **Steadfast** INITIAL DTW (ft): Not Encountered WELL DEPTH (ft): ---DRILLING EQUIPMENT: Geoprobe STATIC DTW (ft): Not Encountered BOREHOLE DEPTH (ft): 5.00

			r: Geoprobe birect Push	STATIC DTW (ft): Not E I WELL CASING DIA. (in):			HOLE			00
			NT: Continuous Liner	LOGGED BY: Kirk War	ner		KED B	Y:		
Time & Depth (feet)	Graphic Log	nscs	Description		Sample	Time Sample ID	Measured Recov. (feet)	Blow Count	Headspace PID (units)	Depth (feet)
	000		GRAVEL SOME SILT; gray and brown; moist; (N	MMF Soil Pile)			_			
_		0.0								-
_		SP	SAND TRACE SILT; SP; gray and brown; fine-gr	ained; moist			5/5			_
_									0.0	-
5			Borehole terminated at 5 feet.							-5-
23										
M 304 GINT-BORING-LOGS. N-40-20231114.GPJ STANTEC ENVIRO TEMPLATE 010509.GDT 11/14/23										
VIRO TEMPLATE										
STANTEC EN										
0_20231114.GP										
AING-LOGS_NZ										
M 304 GINT-BO										

						_		_
Phase	II Environmenta	l Site A	ssessment.	N.	North	Forty.	Seaside.	Oregon

APPENDIX B

Laboratory Reports and Chain-of-Custody Documentation





Pace Analytical® ANALYTICAL REPORT

November 03, 2023

Stantec Consulting - Portland, OR

L1670148 Sample Delivery Group:

Samples Received: 10/25/2023

Project Number: 185706185

Description: North North 40 Property

Report To: Stantec

601 SW 2nd Ave., Suite 1400

Portland, OR 97204





















Entire Report Reviewed By:

Jared Starkey Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Cn: Case Narrative	5
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Sc: Sample Chain of Custody

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SAMPLE SUMMARY

			Collected by	Collected date/time	Received da	te/time
NF-GP03 L1670148-03 Solid			Kirk L Warner	10/23/23 16:50	10/25/23 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG2159649	1	10/30/23 12:28	10/31/23 14:07	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2159786	1	10/28/23 07:32	10/30/23 22:07	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161129	44	10/23/23 16:50	10/31/23 21:19	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159008	1.76	10/23/23 16:50	10/27/23 17:22	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161014	1	10/31/23 16:37	11/01/23 00:39	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2161016	1	10/31/23 18:34	11/01/23 16:48	DSH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-GP03 L1670148-04 Waste			Kirk L Warner	10/23/23 16:50	10/25/23 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2159083	1	10/27/23 11:49	10/27/23 11:49	JWS	Mt. Juliet, TN
Mercury by Method 7470A	WG2159083 WG2159878	1	10/28/23 11:19	10/29/23 15:42	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2160108	1	10/29/23 10:26	10/29/23 14:50	DJS	Mt. Juliet, TN
NF-GP04 L1670148-05 Solid			Collected by Kirk L Warner	Collected date/time 10/23/23 16:20	Received da 10/25/23 09:	
	Dotob	Dilution	Dropovotion	Analysis	Analyst	Lagation
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG2159740 WG2159649	1	10/26/23 09.34	10/31/23 14:26	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2159049 WG2159786	1	10/30/23 12.20	10/30/23 22:10	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161129	25	10/23/23 16:20	10/31/23 21:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159008	1	10/23/23 16:20	10/27/23 17:41	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161014	5	10/31/23 16:37	11/01/23 09:26	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2161016	1	10/31/23 18:34	11/01/23 18:17	DSH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-GP04 L1670148-06 Waste			Kirk L Warner	10/23/23 16:20	10/25/23 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2159083	1	10/27/23 11:49	10/27/23 11:49	JWS	Mt. Juliet, TN
Mercury by Method 7470A	WG2159063 WG2159878	1	10/28/23 11:19	10/29/23 15:44	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2160108	1	10/29/23 10:26	10/29/23 14:58	DJS	Mt. Juliet, TN
NF-GP05 L1670148-07 Solid			Collected by Kirk L Warner	Collected date/time 10/23/23 16:30	Received da 10/25/23 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
	_3.0		date/time	date/time	a.yot	_300.011
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG2159640	1	10/27/23 18:40	10/29/23 18:37	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2159786	1	10/28/23 07:32	10/30/23 22:18	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161129	29.8	10/23/23 16:30	10/31/23 22:54	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159991	1.19	10/23/23 16:30	10/29/23 06:53	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2160889	1.19	10/23/23 16:30	10/31/23 03:33	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161014	5	10/31/23 16:37	11/01/23 09:51	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2161016	1	10/31/23 18:34	11/01/23 18:36	DSH	Mt. Juliet, TN























SAMPLE SUMMARY

NF-GP05 L1670148-08 Waste			Collected by Kirk L Warner	Collected date/time 10/23/23 16:30	Received da 10/25/23 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2159083	1	10/27/23 11:49	10/27/23 11:49	JWS	Mt. Juliet, TN
Mercury by Method 7470A	WG2159878	1	10/28/23 11:19	10/29/23 15:46	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2160108	1	10/29/23 10:26	10/29/23 15:01	DJS	Mt. Juliet, TN
NF-SD-DUP11 L1670148-09 Solid			Collected by Kirk L Warner	Collected date/time 10/23/23 16:25	Received da 10/25/23 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG2159640	1	10/27/23 18:40	10/29/23 18:50	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2159786	1	10/28/23 07:32	10/30/23 22:21	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161129	25	10/23/23 16:25	10/31/23 23:13	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159991	1	10/23/23 16:25	10/29/23 07:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161014	5	10/31/23 16:37	11/01/23 09:39	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2161016	1	10/31/23 18:34	11/01/23 19:12	DSH	Mt. Juliet, TN
NF-SD-DUP11 L1670148-10 Waste			Collected by Kirk L Warner	Collected date/time 10/23/23 16:25	Received da 10/25/23 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2159083	1	10/27/23 11:49	10/27/23 11:49	JWS	Mt. Juliet, TN
Mercury by Method 7470A	WG2159878	1	10/28/23 11:19	10/29/23 15:49	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2160108	1	10/29/23 10:26	10/29/23 15:05	DJS	Mt. Juliet, TN
NIE OD MO4 14070440 44 G. 17 I			Collected by Kirk L Warner	Collected date/time 10/23/23 16:40	Received da 10/25/23 09:	
NF-SD-MS1 L1670148-11 Solid			KIR E Wallet	10/23/23 10.10	10/23/23 03.	.00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG2159649	1	10/30/23 12:28	10/31/23 14:28	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2159786	1	10/28/23 07:32	10/30/23 21:50	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161809	25.3	10/23/23 16:40	11/01/23 15:07	JHH	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260D	WG2159991	1.01	10/23/23 16:40	10/29/23 07:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161014	1	10/31/23 16:37	11/01/23 00:52	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2161016	1	10/31/23 18:34	11/01/23 17:59	DSH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
NF-SD-MS1 L1670148-12 Waste			Kirk L Warner	10/23/23 16:40	10/25/23 09:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2159083	1	10/27/23 11:49	10/27/23 11:49	JWS	Mt. Juliet, TN
Mercury by Method 7470A	WG2159878	1	10/28/23 11:19	10/29/23 15:51	NDL	Mt. Juliet, TN
Motals (ICP) by Mothod 6010D	WG2160108	1	10/20/22 10:26	10/20/22 15:00	DIS	Mt Juliot TN























Metals (ICP) by Method 6010D

WG2160108

1

10/29/23 10:26

10/29/23 15:08

DJS

Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

























Jared Starkey

Metals (ICP) by Method 6010D

Project Manager

The sample concentration is too high to evaluate accurate spike recoveries.

Lab Sample ID **Batch Analytes** (MS) R3993066-5, (MSD) R3993066-6, L1670148-11 WG2159786 Chromium

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

SDG:

L1670148

DATE/TIME-

11/03/23 13:39

PAGE:

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Batch Lab Sample ID **Analytes**

WG2159786 L1670148-11 Barium, Chromium and Lead

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

The same analyte is found in the associated blank.

Batch Analyte Lab Sample ID WG2159991 L1670148-07, 11 p-Isopropyltoluene

The associated batch QC was above the established quality control range for accuracy.

Batch Lab Sample ID **Analytes**

WG2159991 (LCS) R3992945-1, L1670148-07, 09, 11 Trichlorofluoromethane and Vinyl chloride

The associated batch QC was outside the established quality control range for precision.

Batch Lab Sample ID **Analytes** (LCSD) R3992945-2, L1670148-07, 09, Acetone WG2159991

DETECTION SUMMARY

Mercury by Method 7471B

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	<u>Batch</u>
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP05	L1670148-07	Mercury	0.0312	<u>J</u>	0.0190	0.0422	1	10/29/2023 18:37	WG2159640

²Tc



			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP03	L1670148-03	Arsenic	12.5		0.556	2.15	1	10/30/2023 22:07	WG2159786
NF-GP03	L1670148-03	Barium	42.7		0.0914	0.537	1	10/30/2023 22:07	WG2159786
NF-GP03	L1670148-03	Chromium	2080		0.143	1.07	1	10/30/2023 22:07	WG2159786
NF-GP03	L1670148-03	Lead	34.2		0.223	0.537	1	10/30/2023 22:07	WG2159786
NF-GP03	L1670148-03	Selenium	14.7		0.820	2.15	1	10/30/2023 22:07	WG2159786
NF-GP04	L1670148-05	Arsenic	13.9		0.642	2.48	1	10/30/2023 22:10	WG2159786
NF-GP04	L1670148-05	Barium	49.0		0.106	0.620	1	10/30/2023 22:10	WG2159786
NF-GP04	L1670148-05	Chromium	2990		0.165	1.24	1	10/30/2023 22:10	WG2159786
NF-GP04	L1670148-05	Lead	30.9		0.258	0.620	1	10/30/2023 22:10	WG2159786
NF-GP04	L1670148-05	Selenium	15.3		0.947	2.48	1	10/30/2023 22:10	WG2159786
NF-GP05	L1670148-07	Arsenic	4.22		0.547	2.11	1	10/30/2023 22:18	WG2159786
NF-GP05	L1670148-07	Barium	30.9		0.0899	0.528	1	10/30/2023 22:18	WG2159786
NF-GP05	L1670148-07	Chromium	46.5		0.140	1.06	1	10/30/2023 22:18	WG2159786
NF-GP05	L1670148-07	Lead	23.8		0.219	0.528	1	10/30/2023 22:18	WG2159786
NF-GP05	L1670148-07	Selenium	3.44		0.806	2.11	1	10/30/2023 22:18	WG2159786
NF-SD-DUP11	L1670148-09	Arsenic	12.4		0.557	2.15	1	10/30/2023 22:21	WG2159786
NF-SD-DUP11	L1670148-09	Barium	46.1		0.0916	0.537	1	10/30/2023 22:21	WG2159786
NF-SD-DUP11	L1670148-09	Chromium	2340		0.143	1.07	1	10/30/2023 22:21	WG2159786
NF-SD-DUP11	L1670148-09	Lead	21.2		0.224	0.537	1	10/30/2023 22:21	WG2159786
NF-SD-DUP11	L1670148-09	Selenium	10.4		0.821	2.15	1	10/30/2023 22:21	WG2159786
NF-SD-MS1	L1670148-11	Arsenic	15.7		0.530	2.05	1	10/30/2023 21:50	WG2159786
NF-SD-MS1	L1670148-11	Barium	62.3	<u>O1</u>	0.0872	0.512	1	10/30/2023 21:50	WG2159786
NF-SD-MS1	L1670148-11	Chromium	2360	<u>01 V</u>	0.136	1.02	1	10/30/2023 21:50	WG2159786
NF-SD-MS1	L1670148-11	Lead	33.4	<u>O1</u>	0.213	0.512	1	10/30/2023 21:50	WG2159786
NF-SD-MS1	L1670148-11	Selenium	17.2		0.782	2.05	1	10/30/2023 21:50	WG2159786





Cn











Metals (ICP) by Method 6010D

			Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/l		mg/l	mg/l		date / time	
NF-GP04	L1670148-06	Barium	0.230		0.100	100	1	10/29/2023 14:58	WG2160108
NF-GP05	L1670148-08	Barium	0.134		0.100	100	1	10/29/2023 15:01	WG2160108
NF-SD-DUP11	L1670148-10	Barium	0.280		0.100	100	1	10/29/2023 15:05	WG2160108
NF-SD-MS1	L1670148-12	Barium	0.357		0.100	100	1	10/29/2023 15:08	WG2160108

Volatile Organic Compounds (GC) by Method NWTPHGX

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP03	L1670148-03	Gasoline Range Organics-NWTPH	3.11	<u>J</u>	1.66	4.91	44	10/31/2023 21:19	WG2161129
NF-GP04	L1670148-05	Gasoline Range Organics-NWTPH	2.06	<u>J</u>	1.26	3.70	25	10/31/2023 21:58	WG2161129
NF-GP05	L1670148-07	Gasoline Range Organics-NWTPH	2.01	<u>J</u>	1.11	3.28	29.8	10/31/2023 22:54	WG2161129
NF-SD-DUP11	L1670148-09	Gasoline Range Organics-NWTPH	1.21	<u>J</u>	0.978	2.88	25	10/31/2023 23:13	WG2161129
NF-SD-MS1	L1670148-11	Gasoline Range Organics-NWTPH	3.95		0.899	2.65	25.3	11/01/2023 15:07	WG2161809

DETECTION SUMMARY

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

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP03	L1670148-03	Ethylbenzene	0.00182	<u>J</u>	0.00145	0.00491	1.76	10/27/2023 17:22	WG2159008
NF-GP03	L1670148-03	p-Isopropyltoluene	0.0162		0.00501	0.00981	1.76	10/27/2023 17:22	WG2159008
NF-GP03	L1670148-03	4-Methyl-2-pentanone (MIBK)	0.0136	<u>J</u>	0.00447	0.0491	1.76	10/27/2023 17:22	WG2159008
NF-GP03	L1670148-03	Toluene	0.00388	<u>J</u>	0.00255	0.00981	1.76	10/27/2023 17:22	WG2159008
NF-GP03	L1670148-03	1,2,4-Trimethylbenzene	0.00456	<u>J</u>	0.00310	0.00981	1.76	10/27/2023 17:22	WG2159008
NF-GP03	L1670148-03	Xylenes, Total	0.0287		0.00173	0.0127	1.76	10/27/2023 17:22	WG2159008
NF-GP04	L1670148-05	Toluene	0.00411	<u>J</u>	0.00192	0.00740	1	10/27/2023 17:41	WG2159008
NF-GP04	L1670148-05	Xylenes, Total	0.00744	<u>J</u>	0.00130	0.00962	1	10/27/2023 17:41	WG2159008
NF-GP05	L1670148-07	Acetone	0.108	<u>J3</u>	0.0478	0.0655	1.19	10/29/2023 06:53	WG2159991
NF-GP05	L1670148-07	p-Isopropyltoluene	0.00478	<u>B J</u>	0.00334	0.00655	1.19	10/29/2023 06:53	WG2159991
NF-GP05	L1670148-07	4-Methyl-2-pentanone (MIBK)	0.00322	<u>J</u>	0.00299	0.0327	1.19	10/29/2023 06:53	WG2159991
NF-GP05	L1670148-07	Xylenes, Total	0.00954		0.00116	0.00853	1.19	10/29/2023 06:53	WG2159991
NF-SD-DUP11	L1670148-09	Xylenes, Total	0.00546	<u>J</u>	0.00101	0.00750	1	10/29/2023 07:12	WG2159991
NF-SD-MS1	L1670148-11	Acetone	0.0410	<u>J J3</u>	0.0387	0.0529	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	Ethylbenzene	0.00611		0.000780	0.00265	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	Isopropylbenzene	0.00156	<u>J</u>	0.000449	0.00265	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	p-Isopropyltoluene	0.00973	<u>B</u>	0.00270	0.00529	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	4-Methyl-2-pentanone (MIBK)	0.0193	<u>J</u>	0.00241	0.0265	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	Toluene	0.00206	<u>J</u>	0.00137	0.00529	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	1,2,4-Trimethylbenzene	0.00243	<u>J</u>	0.00168	0.00529	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	1,3,5-Trimethylbenzene	0.00238	<u>J</u>	0.00212	0.00529	1.01	10/29/2023 07:31	WG2159991
NF-SD-MS1	L1670148-11	Xylenes, Total	0.0852		0.000931	0.00687	1.01	10/29/2023 07:31	WG2159991

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	<u>Batch</u>
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP03	L1670148-03	Diesel Range Organics (DRO)	7.18		1.43	4.29	1	11/01/2023 00:39	WG2161014
NF-GP03	L1670148-03	Residual Range Organics (RRO)	27.6		3.57	10.7	1	11/01/2023 00:39	WG2161014
NF-GP04	L1670148-05	Residual Range Organics (RRO)	31.6	<u>J</u>	20.6	62.0	5	11/01/2023 09:26	WG2161014
NF-GP05	L1670148-07	Diesel Range Organics (DRO)	32.2		7.02	21.1	5	11/01/2023 09:51	WG2161014
NF-GP05	L1670148-07	Residual Range Organics (RRO)	148		17.5	52.8	5	11/01/2023 09:51	WG2161014
NF-SD-DUP11	L1670148-09	Diesel Range Organics (DRO)	7.19	<u>J</u>	7.15	21.5	5	11/01/2023 09:39	WG2161014
NF-SD-DUP11	L1670148-09	Residual Range Organics (RRO)	74.9		17.8	53.7	5	11/01/2023 09:39	WG2161014
NF-SD-MS1	L1670148-11	Diesel Range Organics (DRO)	13.0		1.36	4.10	1	11/01/2023 00:52	WG2161014
NF-SD-MS1	L1670148-11	Residual Range Organics (RRO)	55.8		3.41	10.2	1	11/01/2023 00:52	WG2161014

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP03	L1670148-03	Benzo(a)anthracene	0.00342	<u>J</u>	0.00186	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Benzo(a)pyrene	0.00558	<u>J</u>	0.00192	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Benzo(b)fluoranthene	0.00726		0.00164	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Benzo(g,h,i)perylene	0.00706		0.00190	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Chrysene	0.00469	<u>J</u>	0.00249	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Fluoranthene	0.00753		0.00244	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Indeno(1,2,3-cd)pyrene	0.00621	<u>J</u>	0.00194	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Phenanthrene	0.00319	<u>J</u>	0.00248	0.00644	1	11/01/2023 16:48	WG2161016
NF-GP03	L1670148-03	Pyrene	0.00782		0.00215	0.00644	1	11/01/2023 16:48	WG2161016

ACCOUNT: Stantec Consulting - Portland, OR

PROJECT: 185706185

SDG: L1670148

DATE/TIME: 11/03/23 13:39





















DETECTION SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP04	L1670148-05	Benzo(a)anthracene	0.0131		0.00215	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Benzo(a)pyrene	0.0201		0.00222	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Benzo(b)fluoranthene	0.0211		0.00190	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Benzo(g,h,i)perylene	0.0221		0.00219	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Benzo(k)fluoranthene	0.00641	<u>J</u>	0.00267	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Chrysene	0.0136		0.00288	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Dibenz(a,h)anthracene	0.00263	<u>J</u>	0.00213	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Fluoranthene	0.0294		0.00281	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Indeno(1,2,3-cd)pyrene	0.0196		0.00224	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Phenanthrene	0.00906		0.00286	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP04	L1670148-05	Pyrene	0.0325		0.00248	0.00744	1	11/01/2023 18:17	WG2161016
NF-GP05	L1670148-07	Anthracene	0.00679		0.00243	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Acenaphthylene	0.00785		0.00228	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Benzo(a)anthracene	0.0503		0.00183	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Benzo(a)pyrene	0.102		0.00189	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Benzo(b)fluoranthene	0.103		0.00161	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Benzo(g,h,i)perylene	0.105		0.00187	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Benzo(k)fluoranthene	0.0322		0.00227	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Chrysene	0.0680		0.00245	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Dibenz(a,h)anthracene	0.0120		0.00181	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Fluoranthene	0.0874		0.00240	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Indeno(1,2,3-cd)pyrene	0.104		0.00191	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Naphthalene	0.00433	<u>J</u>	0.00431	0.0211	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Phenanthrene	0.0232	_	0.00244	0.00633	1	11/01/2023 18:36	WG2161016
NF-GP05	L1670148-07	Pyrene	0.109		0.00211	0.00633	1	11/01/2023 18:36	WG2161016
NF-SD-DUP11	L1670148-09	Benzo(a)anthracene	0.00779		0.00186	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Benzo(a)pyrene	0.0133		0.00192	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Benzo(b)fluoranthene	0.0145		0.00164	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Benzo(g,h,i)perylene	0.0192		0.00190	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Benzo(k)fluoranthene	0.00378	<u>J</u>	0.00231	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Chrysene	0.00840	_	0.00249	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Dibenz(a,h)anthracene	0.00325	<u>J</u>	0.00185	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Fluoranthene	0.0153	_	0.00244	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Indeno(1,2,3-cd)pyrene	0.0125		0.00195	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Phenanthrene	0.00725		0.00248	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-DUP11	L1670148-09	Pyrene	0.0167		0.00215	0.00645	1	11/01/2023 19:12	WG2161016
NF-SD-MS1	L1670148-11	Acenaphthylene	0.00244	<u>J</u>	0.00221	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Benzo(a)anthracene	0.0148	-	0.00177	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Benzo(a)pyrene	0.0244		0.00183	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Benzo(b)fluoranthene	0.0283		0.00157	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Benzo(g,h,i)perylene	0.0256		0.00181	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Benzo(k)fluoranthene	0.00807		0.00220	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Chrysene	0.0180		0.00238	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Dibenz(a,h)anthracene	0.00320	J	0.00236	0.00614	1	11/01/2023 17:59	WG2161016
NF-SD-MS1	L1670148-11	Fluoranthene	0.00320	<u>J</u>	0.00170	0.00614	1	11/01/2023 17:59	WG2161016 WG2161016
NF-SD-MS1	L1670148-11	Indeno(1,2,3-cd)pyrene	0.0347		0.00232	0.00614	1	11/01/2023 17:59	WG2161016 WG2161016
NF-SD-MS1	L1670148-11	Phenanthrene	0.0238		0.00183	0.00614	1	11/01/2023 17:59	WG2161016 WG2161016
NF-SD-MS1	L1670148-11	Pyrene	0.0356		0.00237	0.00614	1	11/01/2023 17:59	WG2161016 WG2161016
ו כואו-עכ- ואו	L1070140-11	ryrene	0.0550		0.00203	0.00014	1	11/01/2023 17.33	WUZ 101010























SAMPLE RESULTS - 03

Collected date/time: 10/23/23 16:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.2		1	10/28/2023 09:44	WG2159740



Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0193	0.0429	1	10/31/2023 14:07	WG2159649



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Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	12.5		0.556	2.15	1	10/30/2023 22:07	WG2159786
Barium	42.7		0.0914	0.537	1	10/30/2023 22:07	WG2159786
Cadmium	U		0.0506	0.537	1	10/30/2023 22:07	WG2159786
Chromium	2080		0.143	1.07	1	10/30/2023 22:07	WG2159786
Lead	34.2		0.223	0.537	1	10/30/2023 22:07	WG2159786
Selenium	14.7		0.820	2.15	1	10/30/2023 22:07	WG2159786
Silver	U		0.136	1.07	1	10/30/2023 22:07	WG2159786



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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	3.11	J	1.66	4.91	44	10/31/2023 21:19	WG2161129
(S) a,a,a-Trifluorotoluene(FID)	99.7			77.0-120		10/31/2023 21:19	WG2161129



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0716	0.0981	1.76	10/27/2023 17:22	WG2159008
Acrylonitrile	U		0.00708	0.0245	1.76	10/27/2023 17:22	WG2159008
Benzene	U		0.000916	0.00196	1.76	10/27/2023 17:22	WG2159008
Bromobenzene	U		0.00176	0.0245	1.76	10/27/2023 17:22	WG2159008
Bromodichloromethane	U		0.00143	0.00491	1.76	10/27/2023 17:22	WG2159008
Bromoform	U		0.00230	0.0491	1.76	10/27/2023 17:22	WG2159008
Bromomethane	U		0.00387	0.0245	1.76	10/27/2023 17:22	WG2159008
n-Butylbenzene	U		0.0103	0.0245	1.76	10/27/2023 17:22	WG2159008
sec-Butylbenzene	U		0.00565	0.0245	1.76	10/27/2023 17:22	WG2159008
tert-Butylbenzene	U		0.00382	0.00981	1.76	10/27/2023 17:22	WG2159008
Carbon tetrachloride	U		0.00176	0.00981	1.76	10/27/2023 17:22	WG2159008
Chlorobenzene	U		0.000413	0.00491	1.76	10/27/2023 17:22	WG2159008
Chlorodibromomethane	U		0.00120	0.00491	1.76	10/27/2023 17:22	WG2159008
Chloroethane	U		0.00333	0.00981	1.76	10/27/2023 17:22	WG2159008
Chloroform	U		0.00202	0.00491	1.76	10/27/2023 17:22	WG2159008
Chloromethane	U		0.00854	0.0245	1.76	10/27/2023 17:22	WG2159008
2-Chlorotoluene	U		0.00169	0.00491	1.76	10/27/2023 17:22	WG2159008
4-Chlorotoluene	U		0.000883	0.00981	1.76	10/27/2023 17:22	WG2159008
1,2-Dibromo-3-Chloropropane	U		0.00765	0.0491	1.76	10/27/2023 17:22	WG2159008
1,2-Dibromoethane	U		0.00127	0.00491	1.76	10/27/2023 17:22	WG2159008
Dibromomethane	U		0.00147	0.00981	1.76	10/27/2023 17:22	WG2159008
1,2-Dichlorobenzene	U		0.000834	0.00981	1.76	10/27/2023 17:22	WG2159008
1,3-Dichlorobenzene	U		0.00118	0.00981	1.76	10/27/2023 17:22	WG2159008
1,4-Dichlorobenzene	U		0.00137	0.00981	1.76	10/27/2023 17:22	WG2159008
Dichlorodifluoromethane	U		0.00316	0.00981	1.76	10/27/2023 17:22	WG2159008
1,1-Dichloroethane	U		0.000963	0.00491	1.76	10/27/2023 17:22	WG2159008
1,2-Dichloroethane	U		0.00127	0.00491	1.76	10/27/2023 17:22	WG2159008

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SAMPLE RESULTS - 03

Collected date/time: 10/23/23 16:50

L1670148

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
1,1-Dichloroethene	U		0.00119	0.00491	1.76	10/27/2023 17:22	WG2159008
cis-1,2-Dichloroethene	U		0.00144	0.00491	1.76	10/27/2023 17:22	WG2159008
trans-1,2-Dichloroethene	U		0.00204	0.00981	1.76	10/27/2023 17:22	WG2159008
1,2-Dichloropropane	U		0.00279	0.00981	1.76	10/27/2023 17:22	WG2159008
1,1-Dichloropropene	U		0.00158	0.00491	1.76	10/27/2023 17:22	WG2159008
1,3-Dichloropropane	U		0.000983	0.00981	1.76	10/27/2023 17:22	WG2159008
cis-1,3-Dichloropropene	U		0.00148	0.00491	1.76	10/27/2023 17:22	WG2159008
trans-1,3-Dichloropropene	U		0.00224	0.00981	1.76	10/27/2023 17:22	WG2159008
2,2-Dichloropropane	U		0.00271	0.00491	1.76	10/27/2023 17:22	WG2159008
Di-isopropyl ether	U		0.000805	0.00196	1.76	10/27/2023 17:22	WG2159008
Ethylbenzene	0.00182	<u>J</u>	0.00145	0.00491	1.76	10/27/2023 17:22	WG2159008
Hexachloro-1,3-butadiene	U		0.0118	0.0491	1.76	10/27/2023 17:22	WG2159008
Isopropylbenzene	U		0.000834	0.00491	1.76	10/27/2023 17:22	WG2159008
p-Isopropyltoluene	0.0162		0.00501	0.00981	1.76	10/27/2023 17:22	WG2159008
2-Butanone (MEK)	U		0.125	0.196	1.76	10/27/2023 17:22	WG2159008
Methylene Chloride	U		0.0130	0.0491	1.76	10/27/2023 17:22	WG2159008
4-Methyl-2-pentanone (MIBK)	0.0136	<u>J</u>	0.00447	0.0491	1.76	10/27/2023 17:22	WG2159008
Methyl tert-butyl ether	U		0.000687	0.00196	1.76	10/27/2023 17:22	WG2159008
Naphthalene	U		0.00958	0.0245	1.76	10/27/2023 17:22	WG2159008
n-Propylbenzene	U		0.00186	0.00981	1.76	10/27/2023 17:22	WG2159008
Styrene	U		0.000449	0.0245	1.76	10/27/2023 17:22	WG2159008
1,1,1,2-Tetrachloroethane	U		0.00186	0.00491	1.76	10/27/2023 17:22	WG2159008
1,1,2,2-Tetrachloroethane	U		0.00136	0.00491	1.76	10/27/2023 17:22	WG2159008
1,1,2-Trichlorotrifluoroethane	U		0.00148	0.00491	1.76	10/27/2023 17:22	WG2159008
Tetrachloroethene	U		0.00176	0.00491	1.76	10/27/2023 17:22	WG2159008
Toluene	0.00388	<u>J</u>	0.00255	0.00981	1.76	10/27/2023 17:22	WG2159008
1,2,3-Trichlorobenzene	U		0.0144	0.0245	1.76	10/27/2023 17:22	WG2159008
1,2,4-Trichlorobenzene	U		0.00863	0.0245	1.76	10/27/2023 17:22	WG2159008
1,1,1-Trichloroethane	U		0.00181	0.00491	1.76	10/27/2023 17:22	WG2159008
1,1,2-Trichloroethane	U		0.00117	0.00491	1.76	10/27/2023 17:22	WG2159008
Trichloroethene	U		0.00115	0.00196	1.76	10/27/2023 17:22	WG2159008
Trichlorofluoromethane	U		0.00163	0.00491	1.76	10/27/2023 17:22	WG2159008
1,2,3-Trichloropropane	U		0.00318	0.0245	1.76	10/27/2023 17:22	WG2159008
1,2,4-Trimethylbenzene	0.00456	<u>J</u>	0.00310	0.00981	1.76	10/27/2023 17:22	WG2159008
1,2,3-Trimethylbenzene	U		0.00310	0.00981	1.76	10/27/2023 17:22	WG2159008
1,3,5-Trimethylbenzene	U		0.00392	0.00981	1.76	10/27/2023 17:22	WG2159008
Vinyl chloride	U		0.00227	0.00491	1.76	10/27/2023 17:22	WG2159008
Xylenes, Total	0.0287		0.00173	0.0127	1.76	10/27/2023 17:22	WG2159008
(S) Toluene-d8	102			75.0-131		10/27/2023 17:22	WG2159008
(S) 4-Bromofluorobenzene	92.8			67.0-138		10/27/2023 17:22	WG2159008

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	7.18		1.43	4.29	1	11/01/2023 00:39	WG2161014
Residual Range Organics (RRO)	27.6		3.57	10.7	1	11/01/2023 00:39	WG2161014
(S) o-Terphenyl	58.5			18.0-148		11/01/2023 00:39	WG2161014

70.0-130

Sample Narrative:

(S) 1,2-Dichloroethane-d4

L1670148-03 WG2161014: Sample resembles laboratory standard for Hydraulic Oil.

117

WG2159008

10/27/2023 17:22

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(S) 2-Fluorobiphenyl

SAMPLE RESULTS - 03

Collected date/time: 10/23/23 16:50

1670148

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

61.8

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00247	0.00644	1	11/01/2023 16:48	WG2161016
Acenaphthene	U		0.00224	0.00644	1	11/01/2023 16:48	WG2161016
Acenaphthylene	U		0.00232	0.00644	1	11/01/2023 16:48	WG2161016
Benzo(a)anthracene	0.00342	<u>J</u>	0.00186	0.00644	1	11/01/2023 16:48	WG2161016
Benzo(a)pyrene	0.00558	<u>J</u>	0.00192	0.00644	1	11/01/2023 16:48	WG2161016
Benzo(b)fluoranthene	0.00726		0.00164	0.00644	1	11/01/2023 16:48	WG2161016
Benzo(g,h,i)perylene	0.00706		0.00190	0.00644	1	11/01/2023 16:48	WG2161016
Benzo(k)fluoranthene	U		0.00231	0.00644	1	11/01/2023 16:48	WG2161016
Chrysene	0.00469	<u>J</u>	0.00249	0.00644	1	11/01/2023 16:48	WG2161016
Dibenz(a,h)anthracene	U		0.00185	0.00644	1	11/01/2023 16:48	WG2161016
Fluoranthene	0.00753		0.00244	0.00644	1	11/01/2023 16:48	WG2161016
Fluorene	U		0.00220	0.00644	1	11/01/2023 16:48	WG2161016
Indeno(1,2,3-cd)pyrene	0.00621	<u>J</u>	0.00194	0.00644	1	11/01/2023 16:48	WG2161016
Naphthalene	U		0.00438	0.0215	1	11/01/2023 16:48	WG2161016
Phenanthrene	0.00319	<u>J</u>	0.00248	0.00644	1	11/01/2023 16:48	WG2161016
Pyrene	0.00782		0.00215	0.00644	1	11/01/2023 16:48	WG2161016
1-Methylnaphthalene	U		0.00482	0.0215	1	11/01/2023 16:48	WG2161016
2-Methylnaphthalene	U		0.00458	0.0215	1	11/01/2023 16:48	WG2161016
2-Chloronaphthalene	U		0.00500	0.0215	1	11/01/2023 16:48	WG2161016
(S) p-Terphenyl-d14	59.7			23.0-120		11/01/2023 16:48	WG2161016
(S) Nitrobenzene-d5	58.9			14.0-149		11/01/2023 16:48	WG2161016

34.0-125



















WG2161016

11/01/2023 16:48

SAMPLE RESULTS - 04

Collected date/time: 10/23/23 16:50

Preparation by Method 1311

-				
	Result	Qualifier	Prep	Batch
Analyte			date / time	
TCLP Extraction	-		10/27/2023 11:49:31 AM	WG2159083
Initial pH	8.37		10/27/2023 11:49:31 AM	WG2159083
Final pH	5.08		10/27/2023 11:49:31 AM	WG2159083



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Mercury by Method 7470A

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Mercury	ND		0.0100	0.20	1	10/29/2023 15:42	WG2159878





Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Limit	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Arsenic	ND		0.100	5	1	10/29/2023 14:50	WG2160108
Barium	ND		0.100	100	1	10/29/2023 14:50	WG2160108
Cadmium	ND		0.100	1	1	10/29/2023 14:50	WG2160108
Chromium	ND		0.100	5	1	10/29/2023 14:50	WG2160108
Lead	ND		0.100	5	1	10/29/2023 14:50	WG2160108
Selenium	ND		0.100	1	1	10/29/2023 14:50	WG2160108
Silver	ND		0.100	5	1	10/29/2023 14:50	WG2160108











SAMPLE RESULTS - 05

Collected date/time: 10/23/23 16:20

L1670148

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.6		1	10/28/2023 09:44	WG2159740



Mercury by Method 7471B

	Result (dry)	<u>Qualifier</u>	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0223	0.0496	1	10/31/2023 14:26	WG2159649



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Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	13.9		0.642	2.48	1	10/30/2023 22:10	WG2159786
Barium	49.0		0.106	0.620	1	10/30/2023 22:10	WG2159786
Cadmium	U		0.0584	0.620	1	10/30/2023 22:10	WG2159786
Chromium	2990		0.165	1.24	1	10/30/2023 22:10	WG2159786
Lead	30.9		0.258	0.620	1	10/30/2023 22:10	WG2159786
Selenium	15.3		0.947	2.48	1	10/30/2023 22:10	WG2159786
Silver	U		0.157	1.24	1	10/30/2023 22:10	WG2159786



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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	2.06	<u>J</u>	1.26	3.70	25	10/31/2023 21:58	WG2161129
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		10/31/2023 21:58	WG2161129



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0540	0.0740	1	10/27/2023 17:41	WG2159008
Acrylonitrile	U		0.00534	0.0185	1	10/27/2023 17:41	WG2159008
Benzene	U		0.000691	0.00148	1	10/27/2023 17:41	WG2159008
Bromobenzene	U		0.00133	0.0185	1	10/27/2023 17:41	WG2159008
Bromodichloromethane	U		0.00107	0.00370	1	10/27/2023 17:41	WG2159008
Bromoform	U		0.00173	0.0370	1	10/27/2023 17:41	WG2159008
Bromomethane	U		0.00292	0.0185	1	10/27/2023 17:41	WG2159008
n-Butylbenzene	U		0.00777	0.0185	1	10/27/2023 17:41	WG2159008
sec-Butylbenzene	U		0.00426	0.0185	1	10/27/2023 17:41	WG2159008
tert-Butylbenzene	U		0.00289	0.00740	1	10/27/2023 17:41	WG2159008
Carbon tetrachloride	U		0.00133	0.00740	1	10/27/2023 17:41	WG2159008
Chlorobenzene	U		0.000311	0.00370	1	10/27/2023 17:41	WG2159008
Chlorodibromomethane	U		0.000906	0.00370	1	10/27/2023 17:41	WG2159008
Chloroethane	U		0.00252	0.00740	1	10/27/2023 17:41	WG2159008
Chloroform	U		0.00152	0.00370	1	10/27/2023 17:41	WG2159008
Chloromethane	U		0.00644	0.0185	1	10/27/2023 17:41	WG2159008
2-Chlorotoluene	U		0.00128	0.00370	1	10/27/2023 17:41	WG2159008
4-Chlorotoluene	U		0.000666	0.00740	1	10/27/2023 17:41	WG2159008
1,2-Dibromo-3-Chloropropane	U		0.00577	0.0370	1	10/27/2023 17:41	WG2159008
1,2-Dibromoethane	U		0.000959	0.00370	1	10/27/2023 17:41	WG2159008
Dibromomethane	U		0.00111	0.00740	1	10/27/2023 17:41	WG2159008
1,2-Dichlorobenzene	U		0.000629	0.00740	1	10/27/2023 17:41	WG2159008
1,3-Dichlorobenzene	U		0.000888	0.00740	1	10/27/2023 17:41	WG2159008
1,4-Dichlorobenzene	U		0.00104	0.00740	1	10/27/2023 17:41	WG2159008
Dichlorodifluoromethane	U		0.00238	0.00740	1	10/27/2023 17:41	WG2159008
1,1-Dichloroethane	U		0.000727	0.00370	1	10/27/2023 17:41	WG2159008
1,2-Dichloroethane	U		0.000961	0.00370	1	10/27/2023 17:41	WG2159008

SAMPLE RESULTS - 05

Collected date/time: 10/23/23 16:20

1670148

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
1,1-Dichloroethene	U		0.000897	0.00370	1	10/27/2023 17:41	WG2159008
cis-1,2-Dichloroethene	U		0.00109	0.00370	1	10/27/2023 17:41	WG2159008
trans-1,2-Dichloroethene	U		0.00154	0.00740	1	10/27/2023 17:41	WG2159008
1,2-Dichloropropane	U		0.00210	0.00740	1	10/27/2023 17:41	WG2159008
1,1-Dichloropropene	U		0.00120	0.00370	1	10/27/2023 17:41	WG2159008
1,3-Dichloropropane	U		0.000742	0.00740	1	10/27/2023 17:41	WG2159008
cis-1,3-Dichloropropene	U		0.00112	0.00370	1	10/27/2023 17:41	WG2159008
trans-1,3-Dichloropropene	U		0.00169	0.00740	1	10/27/2023 17:41	WG2159008
2,2-Dichloropropane	U		0.00204	0.00370	1	10/27/2023 17:41	WG2159008
Di-isopropyl ether	U		0.000607	0.00148	1	10/27/2023 17:41	WG2159008
Ethylbenzene	U		0.00109	0.00370	1	10/27/2023 17:41	WG2159008
Hexachloro-1,3-butadiene	U		0.00888	0.0370	1	10/27/2023 17:41	WG2159008
Isopropylbenzene	U		0.000629	0.00370	1	10/27/2023 17:41	WG2159008
p-Isopropyltoluene	U		0.00377	0.00740	1	10/27/2023 17:41	WG2159008
2-Butanone (MEK)	U		0.0940	0.148	1	10/27/2023 17:41	WG2159008
Methylene Chloride	U		0.00983	0.0370	1	10/27/2023 17:41	WG2159008
4-Methyl-2-pentanone (MIBK)	U		0.00337	0.0370	1	10/27/2023 17:41	WG2159008
Methyl tert-butyl ether	U		0.000518	0.00148	1	10/27/2023 17:41	WG2159008
Naphthalene	U		0.00722	0.0185	1	10/27/2023 17:41	WG2159008
n-Propylbenzene	U		0.00141	0.00740	1	10/27/2023 17:41	WG2159008
Styrene	U		0.000339	0.0185	1	10/27/2023 17:41	WG2159008
1,1,1,2-Tetrachloroethane	U		0.00140	0.00370	1	10/27/2023 17:41	WG2159008
1,1,2,2-Tetrachloroethane	U		0.00103	0.00370	1	10/27/2023 17:41	WG2159008
1,1,2-Trichlorotrifluoroethane	U		0.00112	0.00370	1	10/27/2023 17:41	WG2159008
Tetrachloroethene	U		0.00133	0.00370	1	10/27/2023 17:41	WG2159008
Toluene	0.00411	<u>J</u>	0.00192	0.00740	1	10/27/2023 17:41	WG2159008
1,2,3-Trichlorobenzene	U		0.0108	0.0185	1	10/27/2023 17:41	WG2159008
1,2,4-Trichlorobenzene	U		0.00651	0.0185	1	10/27/2023 17:41	WG2159008
1,1,1-Trichloroethane	U		0.00137	0.00370	1	10/27/2023 17:41	WG2159008
1,1,2-Trichloroethane	U		0.000884	0.00370	1	10/27/2023 17:41	WG2159008
Trichloroethene	U		0.000864	0.00148	1	10/27/2023 17:41	WG2159008
Trichlorofluoromethane	U		0.00122	0.00370	1	10/27/2023 17:41	WG2159008
1,2,3-Trichloropropane	U		0.00240	0.0185	1	10/27/2023 17:41	WG2159008
1,2,4-Trimethylbenzene	U		0.00234	0.00740	1	10/27/2023 17:41	WG2159008
1,2,3-Trimethylbenzene	U		0.00234	0.00740	1	10/27/2023 17:41	WG2159008
1,3,5-Trimethylbenzene	U		0.00296	0.00740	1	10/27/2023 17:41	WG2159008
Vinyl chloride	U		0.00172	0.00370	1	10/27/2023 17:41	WG2159008
Xylenes, Total	0.00744	<u>J</u>	0.00130	0.00962	1	10/27/2023 17:41	WG2159008
(S) Toluene-d8	102	_		75.0-131		10/27/2023 17:41	WG2159008
(S) 4-Bromofluorobenzene	91.6			67.0-138		10/27/2023 17:41	WG2159008

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		8.25	24.8	5	11/01/2023 09:26	WG2161014
Residual Range Organics (RRO)	31.6	<u>J</u>	20.6	62.0	5	11/01/2023 09:26	WG2161014
(S) o-Terphenyl	26.7			18.0-148		11/01/2023 09:26	WG2161014

70.0-130

Sample Narrative:

(S) 1,2-Dichloroethane-d4

L1670148-05 WG2161014: Cannot run at lower dilution due to viscosity of extract

WG2159008

10/27/2023 17:41

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(S) 2-Fluorobiphenyl

SAMPLE RESULTS - 05

Collected date/time: 10/23/23 16:20

L1670148

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

72.6

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00285	0.00744	1	11/01/2023 18:17	WG2161016
Acenaphthene	U		0.00259	0.00744	1	11/01/2023 18:17	WG2161016
Acenaphthylene	U		0.00268	0.00744	1	11/01/2023 18:17	WG2161016
Benzo(a)anthracene	0.0131		0.00215	0.00744	1	11/01/2023 18:17	WG2161016
Benzo(a)pyrene	0.0201		0.00222	0.00744	1	11/01/2023 18:17	WG2161016
Benzo(b)fluoranthene	0.0211		0.00190	0.00744	1	11/01/2023 18:17	WG2161016
Benzo(g,h,i)perylene	0.0221		0.00219	0.00744	1	11/01/2023 18:17	WG2161016
Benzo(k)fluoranthene	0.00641	<u>J</u>	0.00267	0.00744	1	11/01/2023 18:17	WG2161016
Chrysene	0.0136		0.00288	0.00744	1	11/01/2023 18:17	WG2161016
Dibenz(a,h)anthracene	0.00263	<u>J</u>	0.00213	0.00744	1	11/01/2023 18:17	WG2161016
Fluoranthene	0.0294		0.00281	0.00744	1	11/01/2023 18:17	WG2161016
Fluorene	U		0.00254	0.00744	1	11/01/2023 18:17	WG2161016
Indeno(1,2,3-cd)pyrene	0.0196		0.00224	0.00744	1	11/01/2023 18:17	WG2161016
Naphthalene	U		0.00506	0.0248	1	11/01/2023 18:17	WG2161016
Phenanthrene	0.00906		0.00286	0.00744	1	11/01/2023 18:17	WG2161016
Pyrene	0.0325		0.00248	0.00744	1	11/01/2023 18:17	WG2161016
1-Methylnaphthalene	U		0.00557	0.0248	1	11/01/2023 18:17	WG2161016
2-Methylnaphthalene	U		0.00529	0.0248	1	11/01/2023 18:17	WG2161016
2-Chloronaphthalene	U		0.00578	0.0248	1	11/01/2023 18:17	WG2161016
(S) p-Terphenyl-d14	69.3			23.0-120		11/01/2023 18:17	WG2161016
(S) Nitrobenzene-d5	67.0			14.0-149		11/01/2023 18:17	WG2161016

34.0-125





















WG2161016

11/01/2023 18:17

SAMPLE RESULTS - 06

Collected date/time: 10/23/23 16:20 Preparation by Method 1311

	Result	Qualifier	Prep	Batch
Analyte			date / time	
TCLP Extraction	-		10/27/2023 11:49:31 AM	WG2159083
Initial pH	7.78		10/27/2023 11:49:31 AM	WG2159083
Final pH	5.03		10/27/2023 11:49:31 AM	WG2159083







Mercury by Method 7470A

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Mercury	ND		0.0100	0.20	1	10/29/2023 15:44	WG2159878





Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/I		date / time	<u> </u>
Arsenic	ND		0.100	5	1	10/29/2023 14:58	WG2160108
Barium	0.230		0.100	100	1	10/29/2023 14:58	WG2160108
Cadmium	ND		0.100	1	1	10/29/2023 14:58	WG2160108
Chromium	ND		0.100	5	1	10/29/2023 14:58	WG2160108
Lead	ND		0.100	5	1	10/29/2023 14:58	WG2160108
Selenium	ND		0.100	1	1	10/29/2023 14:58	WG2160108
Silver	ND		0.100	5	1	10/29/2023 14:58	WG2160108











SAMPLE RESULTS - 07

Collected date/time: 10/23/23 16:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	94.8		1	10/28/2023 09:44	WG2159740

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0312	J	0.0190	0.0422	1	10/29/2023 18:37	WG2159640



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Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.22		0.547	2.11	1	10/30/2023 22:18	WG2159786
Barium	30.9		0.0899	0.528	1	10/30/2023 22:18	WG2159786
Cadmium	U		0.0497	0.528	1	10/30/2023 22:18	WG2159786
Chromium	46.5		0.140	1.06	1	10/30/2023 22:18	WG2159786
Lead	23.8		0.219	0.528	1	10/30/2023 22:18	WG2159786
Selenium	3.44		0.806	2.11	1	10/30/2023 22:18	WG2159786
Silver	U		0.134	1.06	1	10/30/2023 22:18	WG2159786



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Volatile Organic Compounds (GC) by Method NWTPHGX

	, ,						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	2.01	<u>J</u>	1.11	3.28	29.8	10/31/2023 22:54	WG2161129
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		10/31/2023 22:54	WG2161129



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.108	<u>J3</u>	0.0478	0.0655	1.19	10/29/2023 06:53	WG2159991
Acrylonitrile	U		0.00474	0.0164	1.19	10/29/2023 06:53	WG2159991
Benzene	U		0.000613	0.00131	1.19	10/29/2023 06:53	WG2159991
Bromobenzene	U		0.00118	0.0164	1.19	10/29/2023 06:53	WG2159991
Bromodichloromethane	U		0.000951	0.00327	1.19	10/29/2023 06:53	WG2159991
Bromoform	U		0.00153	0.0327	1.19	10/29/2023 06:53	WG2159991
Bromomethane	U		0.00258	0.0164	1.19	10/29/2023 06:53	WG2159991
n-Butylbenzene	U		0.00689	0.0164	1.19	10/29/2023 06:53	WG2159991
sec-Butylbenzene	U		0.00378	0.0164	1.19	10/29/2023 06:53	WG2159991
tert-Butylbenzene	U		0.00256	0.00655	1.19	10/29/2023 06:53	WG2159991
Carbon tetrachloride	U		0.00118	0.00655	1.19	10/29/2023 06:53	WG2159991
Chlorobenzene	U		0.000275	0.00327	1.19	10/29/2023 06:53	WG2159991
Chlorodibromomethane	U		0.000802	0.00327	1.19	10/29/2023 06:53	WG2159991
Chloroethane	U		0.00223	0.00655	1.19	10/29/2023 06:53	WG2159991
Chloroform	U		0.00136	0.00327	1.19	10/29/2023 06:53	WG2159991
Chloromethane	U		0.00571	0.0164	1.19	10/29/2023 06:53	WG2159991
2-Chlorotoluene	U		0.00113	0.00327	1.19	10/29/2023 06:53	WG2159991
4-Chlorotoluene	U		0.000589	0.00655	1.19	10/29/2023 06:53	WG2159991
1,2-Dibromo-3-Chloropropane	U		0.00511	0.0327	1.19	10/29/2023 06:53	WG2159991
1,2-Dibromoethane	U		0.000849	0.00327	1.19	10/29/2023 06:53	WG2159991
Dibromomethane	U		0.000983	0.00655	1.19	10/29/2023 06:53	WG2159991
1,2-Dichlorobenzene	U		0.000557	0.00655	1.19	10/29/2023 06:53	WG2159991
1,3-Dichlorobenzene	U		0.000787	0.00655	1.19	10/29/2023 06:53	WG2159991
1,4-Dichlorobenzene	U		0.000918	0.00655	1.19	10/29/2023 06:53	WG2159991
Dichlorodifluoromethane	U		0.00212	0.00327	1.19	10/29/2023 06:53	WG2159991
1,1-Dichloroethane	U		0.000643	0.00327	1.19	10/29/2023 06:53	WG2159991
1,2-Dichloroethane	U		0.000850	0.00327	1.19	10/29/2023 06:53	WG2159991

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SAMPLE RESULTS - 07

Collected date/time: 10/23/23 16:30

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
1,1-Dichloroethene	U		0.000794	0.00327	1.19	10/29/2023 06:53	WG2159991
cis-1,2-Dichloroethene	U		0.000962	0.00327	1.19	10/29/2023 06:53	WG2159991
trans-1,2-Dichloroethene	U		0.00137	0.00655	1.19	10/29/2023 06:53	WG2159991
1,2-Dichloropropane	U		0.00186	0.00655	1.19	10/29/2023 06:53	WG2159991
1,1-Dichloropropene	U		0.00106	0.00327	1.19	10/29/2023 06:53	WG2159991
1,3-Dichloropropane	U		0.000657	0.00655	1.19	10/29/2023 06:53	WG2159991
cis-1,3-Dichloropropene	U		0.000993	0.00327	1.19	10/29/2023 06:53	WG2159991
trans-1,3-Dichloropropene	U		0.00150	0.00655	1.19	10/29/2023 06:53	WG2159991
2,2-Dichloropropane	U		0.00181	0.00327	1.19	10/29/2023 06:53	WG2159991
Di-isopropyl ether	U		0.000538	0.00131	1.19	10/29/2023 06:53	WG2159991
Ethylbenzene	U		0.000966	0.00327	1.19	10/29/2023 06:53	WG2159991
Hexachloro-1,3-butadiene	U		0.00787	0.0327	1.19	10/29/2023 06:53	WG2159991
Isopropylbenzene	U		0.000557	0.00327	1.19	10/29/2023 06:53	WG2159991
p-Isopropyltoluene	0.00478	<u>B J</u>	0.00334	0.00655	1.19	10/29/2023 06:53	WG2159991
2-Butanone (MEK)	U		0.0833	0.131	1.19	10/29/2023 06:53	WG2159991
Methylene Chloride	U		0.00870	0.0327	1.19	10/29/2023 06:53	WG2159991
4-Methyl-2-pentanone (MIBK)	0.00322	J	0.00299	0.0327	1.19	10/29/2023 06:53	WG2159991
Methyl tert-butyl ether	U	_	0.000459	0.00131	1.19	10/29/2023 06:53	WG2159991
Naphthalene	U		0.00640	0.0164	1.19	10/29/2023 06:53	WG2159991
n-Propylbenzene	U		0.00124	0.00655	1.19	10/29/2023 06:53	WG2159991
Styrene	U		0.000301	0.0164	1.19	10/29/2023 06:53	WG2159991
1,1,1,2-Tetrachloroethane	U		0.00124	0.00327	1.19	10/29/2023 06:53	WG2159991
1,1,2,2-Tetrachloroethane	U		0.000911	0.00327	1.19	10/29/2023 06:53	WG2159991
1,1,2-Trichlorotrifluoroethane	U		0.000988	0.00327	1.19	10/29/2023 06:53	WG2159991
Tetrachloroethene	U		0.00118	0.00327	1.19	10/29/2023 06:53	WG2159991
Toluene	U		0.00171	0.00655	1.19	10/29/2023 06:53	WG2159991
1,2,3-Trichlorobenzene	U		0.00961	0.0164	1.19	10/29/2023 06:53	WG2159991
1,2,4-Trichlorobenzene	U		0.00577	0.0164	1.19	10/29/2023 06:53	WG2159991
1,1,1-Trichloroethane	U		0.00121	0.00327	1.19	10/29/2023 06:53	WG2159991
1,1,2-Trichloroethane	U		0.000782	0.00327	1.19	10/29/2023 06:53	WG2159991
Trichloroethene	U		0.000766	0.00131	1.19	10/31/2023 03:33	WG2160889
Trichlorofluoromethane	U	<u>J4</u>	0.00108	0.00327	1.19	10/29/2023 06:53	WG2159991
1,2,3-Trichloropropane	U	_	0.00213	0.0164	1.19	10/29/2023 06:53	WG2159991
1,2,4-Trimethylbenzene	U		0.00207	0.00655	1.19	10/29/2023 06:53	WG2159991
1,2,3-Trimethylbenzene	U		0.00207	0.00655	1.19	10/29/2023 06:53	WG2159991
1,3,5-Trimethylbenzene	U		0.00262	0.00655	1.19	10/29/2023 06:53	WG2159991
Vinyl chloride	U	<u>J4</u>	0.00152	0.00327	1.19	10/29/2023 06:53	WG2159991
Xylenes, Total	0.00954	_	0.00116	0.00853	1.19	10/29/2023 06:53	WG2159991
(S) Toluene-d8	106			75.0-131		10/29/2023 06:53	WG2159991
(S) Toluene-d8	108			75.0-131		10/31/2023 03:33	WG2160889
(S) 4-Bromofluorobenzene	99.1			67.0-138		10/29/2023 06:53	WG2159991
(S) 4-Bromofluorobenzene	106			67.0-138		10/31/2023 03:33	WG2160889
(S) 1,2-Dichloroethane-d4	100			70.0-130		10/29/2023 06:53	WG2159991
(3) 1,2-DICHIOLOGUIULIC=U+	100			70.0-130		10/23/2023 00.33	110210001

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	32.2		7.02	21.1	5	11/01/2023 09:51	WG2161014
lesidual Range Organics (RRO)	148		17.5	52.8	5	11/01/2023 09:51	WG2161014
(S) o-Terphenyl	44.4			18.0-148		11/01/2023 09:51	WG2161014

70.0-130

Sample Narrative:

(S) 1,2-Dichloroethane-d4

 ${\tt L1670148-07\ WG2161014: Sample\ resembles\ laboratory\ standard\ for\ Hydraulic\ Oil}$

92.4

10/31/2023 03:33

WG2160889

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(S) 2-Fluorobiphenyl

SAMPLE RESULTS - 07

Collected date/time: 10/23/23 16:30

L1670148

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

64.2

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>	
Analyte	mg/kg		mg/kg	mg/kg		date / time		l
Anthracene	0.00679		0.00243	0.00633	1	11/01/2023 18:36	WG2161016	
Acenaphthene	U		0.00221	0.00633	1	11/01/2023 18:36	WG2161016	
Acenaphthylene	0.00785		0.00228	0.00633	1	11/01/2023 18:36	WG2161016	
Benzo(a)anthracene	0.0503		0.00183	0.00633	1	11/01/2023 18:36	WG2161016	
Benzo(a)pyrene	0.102		0.00189	0.00633	1	11/01/2023 18:36	WG2161016	
Benzo(b)fluoranthene	0.103		0.00161	0.00633	1	11/01/2023 18:36	WG2161016	
Benzo(g,h,i)perylene	0.105		0.00187	0.00633	1	11/01/2023 18:36	WG2161016	
Benzo(k)fluoranthene	0.0322		0.00227	0.00633	1	11/01/2023 18:36	WG2161016	
Chrysene	0.0680		0.00245	0.00633	1	11/01/2023 18:36	WG2161016	
Dibenz(a,h)anthracene	0.0120		0.00181	0.00633	1	11/01/2023 18:36	WG2161016	
Fluoranthene	0.0874		0.00240	0.00633	1	11/01/2023 18:36	WG2161016	
Fluorene	U		0.00216	0.00633	1	11/01/2023 18:36	WG2161016	
Indeno(1,2,3-cd)pyrene	0.104		0.00191	0.00633	1	11/01/2023 18:36	WG2161016	
Naphthalene	0.00433	<u>J</u>	0.00431	0.0211	1	11/01/2023 18:36	WG2161016	
Phenanthrene	0.0232		0.00244	0.00633	1	11/01/2023 18:36	WG2161016	
Pyrene	0.109		0.00211	0.00633	1	11/01/2023 18:36	WG2161016	
1-Methylnaphthalene	U		0.00474	0.0211	1	11/01/2023 18:36	WG2161016	
2-Methylnaphthalene	U		0.00451	0.0211	1	11/01/2023 18:36	WG2161016	
2-Chloronaphthalene	U		0.00492	0.0211	1	11/01/2023 18:36	WG2161016	
(S) p-Terphenyl-d14	62.3			23.0-120		11/01/2023 18:36	WG2161016	
(S) Nitrobenzene-d5	70.8			14.0-149		11/01/2023 18:36	WG2161016	

34.0-125

11/01/2023 18:36

WG2161016



















SAMPLE RESULTS - 08

Collected date/time: 10/23/23 16:30 Preparation by Method 1311

	Result	Qualifier	Prep	Batch
Analyte			date / time	
TCLP Extraction	-		10/27/2023 11:49:31 AM	WG2159083
Initial pH	8.06		10/27/2023 11:49:31 AM	WG2159083
Final pH	4.97		10/27/2023 11:49:31 AM	WG2159083







Mercury by Method 7470A

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Mercury	ND		0.0100	0.20	1	10/29/2023 15:46	WG2159878





Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Limit	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Arsenic	ND		0.100	5	1	10/29/2023 15:01	WG2160108
Barium	0.134		0.100	100	1	10/29/2023 15:01	WG2160108
Cadmium	ND		0.100	1	1	10/29/2023 15:01	WG2160108
Chromium	ND		0.100	5	1	10/29/2023 15:01	WG2160108
Lead	ND		0.100	5	1	10/29/2023 15:01	WG2160108
Selenium	ND		0.100	1	1	10/29/2023 15:01	WG2160108
Silver	ND		0.100	5	1	10/29/2023 15:01	WG2160108













NF-SD-DUP11

SAMPLE RESULTS - 09

Collected date/time: 10/23/23 16:25

L1670148

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.0		1	10/28/2023 09:44	WG2159740



Mercury by Method 7471B

	Result (dry)	<u>Qualifier</u>	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0193	0.0430	1	10/29/2023 18:50	WG2159640



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Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	12.4		0.557	2.15	1	10/30/2023 22:21	WG2159786
Barium	46.1		0.0916	0.537	1	10/30/2023 22:21	WG2159786
Cadmium	U		0.0506	0.537	1	10/30/2023 22:21	WG2159786
Chromium	2340		0.143	1.07	1	10/30/2023 22:21	WG2159786
Lead	21.2		0.224	0.537	1	10/30/2023 22:21	WG2159786
Selenium	10.4		0.821	2.15	1	10/30/2023 22:21	WG2159786
Silver	U		0.137	1.07	1	10/30/2023 22:21	WG2159786



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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.21	J	0.978	2.88	25	10/31/2023 23:13	WG2161129
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		10/31/2023 23:13	WG2161129



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	<u>J3</u>	0.0421	0.0577	1	10/29/2023 07:12	WG2159991
Acrylonitrile	U		0.00416	0.0144	1	10/29/2023 07:12	WG2159991
Benzene	U		0.000539	0.00115	1	10/29/2023 07:12	WG2159991
Bromobenzene	U		0.00104	0.0144	1	10/29/2023 07:12	WG2159991
Bromodichloromethane	U		0.000836	0.00288	1	10/29/2023 07:12	WG2159991
Bromoform	U		0.00135	0.0288	1	10/29/2023 07:12	WG2159991
Bromomethane	U		0.00227	0.0144	1	10/29/2023 07:12	WG2159991
n-Butylbenzene	U		0.00606	0.0144	1	10/29/2023 07:12	WG2159991
sec-Butylbenzene	U		0.00332	0.0144	1	10/29/2023 07:12	WG2159991
tert-Butylbenzene	U		0.00225	0.00577	1	10/29/2023 07:12	WG2159991
Carbon tetrachloride	U		0.00104	0.00577	1	10/29/2023 07:12	WG2159991
Chlorobenzene	U		0.000242	0.00288	1	10/29/2023 07:12	WG2159991
Chlorodibromomethane	U		0.000706	0.00288	1	10/29/2023 07:12	WG2159991
Chloroethane	U		0.00196	0.00577	1	10/29/2023 07:12	WG2159991
Chloroform	U		0.00119	0.00288	1	10/29/2023 07:12	WG2159991
Chloromethane	U		0.00502	0.0144	1	10/29/2023 07:12	WG2159991
2-Chlorotoluene	U		0.000998	0.00288	1	10/29/2023 07:12	WG2159991
4-Chlorotoluene	U		0.000519	0.00577	1	10/29/2023 07:12	WG2159991
1,2-Dibromo-3-Chloropropane	U		0.00450	0.0288	1	10/29/2023 07:12	WG2159991
1,2-Dibromoethane	U		0.000747	0.00288	1	10/29/2023 07:12	WG2159991
Dibromomethane	U		0.000865	0.00577	1	10/29/2023 07:12	WG2159991
1,2-Dichlorobenzene	U		0.000490	0.00577	1	10/29/2023 07:12	WG2159991
1,3-Dichlorobenzene	U		0.000692	0.00577	1	10/29/2023 07:12	WG2159991
1,4-Dichlorobenzene	U		0.000807	0.00577	1	10/29/2023 07:12	WG2159991
Dichlorodifluoromethane	U		0.00186	0.00288	1	10/29/2023 07:12	WG2159991
1,1-Dichloroethane	U		0.000566	0.00288	1	10/29/2023 07:12	WG2159991
1,2-Dichloroethane	U		0.000749	0.00288	1	10/29/2023 07:12	WG2159991

SAMPLE RESULTS - 09

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10/29/2023 07:12

Collected date/time: 10/23/23 16:25

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

Common C		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
cs-1,2-Dichloroethene U 0.000847 0.00288 1 10/29/2023 07:12 WG2/59991 trans-1,2-Dichloroethene U 0.0070 0.00577 1 10/29/2023 07:12 WG2/59991 L2-Dichloropopene U 0.000833 0.00288 1 10/29/2023 07:12 WG2/59991 L3-Dichloropropene U 0.000878 0.00577 1 10/29/2023 07:12 WG2/59991 dis-1,3-Dichloropropene U 0.000878 0.00577 1 10/29/2023 07:12 WG2/59991 dis-1,3-Dichloropropene U 0.0011 0.00577 1 10/29/2023 07:12 WG2/59991 Lam-1,3-Dichloropropene U 0.0011 0.00577 1 10/29/2023 07:12 WG2/59991 Lam-1,3-Dichloropropene U 0.0015 0.00528 1 10/29/2023 07:12 WG2/59991 Listance Miller U 0.00692 0.0288 1 10/29/2023 07:12 WG2/59991 Bispropylehrane U 0.00692 0.0288 1 10/29/2023 07:12 WG2/59991	Analyte	mg/kg	<u> </u>	mg/kg	mg/kg		date / time	
trans 1,2-Dichloroethene U 0.00120 0.00577 1 10/29/2023 07:12 W62/159981 1,2-Dichloropropene U 0.0064 0.00577 1 10/29/2023 07:12 W62/159991 1,3-Dichloropropene U 0.000878 0.00577 1 10/29/2023 07:12 W62/159991 1,3-Dichloropropene U 0.000878 0.00577 1 10/29/2023 07:12 W62/159991 1,3-Dichloropropene U 0.00151 0.00577 1 10/29/2023 07:12 W62/159991 1,3-Dichloropropene U 0.00151 0.00577 1 10/29/2023 07:12 W62/159991 1,5-Dickpropyl ether U 0.00589 0.00288 1 10/29/2023 07:12 W62/159991 Ethylkoerzene U 0.006850 0.00288 1 10/29/2023 07:12 W62/159991 Hescarbor J, Subradiene U 0.00682 0.0288 1 10/29/2023 07:12 W62/159991 Hescarbor J, Subradiene U 0.00722 0.15 1 10/29/2023 07:12 W62/	1,1-Dichloroethene	U		0.000699	0.00288	1	10/29/2023 07:12	WG2159991
1.2.Dichloropropane	cis-1,2-Dichloroethene	U		0.000847	0.00288	1	10/29/2023 07:12	WG2159991
1.1-Dichloropropene U 0.000933 0.00288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000578 0.00577 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000578 0.00577 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000573 0.00288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000579 0.00288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.00059 0.000288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000592 0.00288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000593 0.00288 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000593 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000593 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000593 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0048 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0048 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0044 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0048 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0038 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0038 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U 0.000594 0.0038 1 10/29/2023 07/12 WG2159991 1.3-Dichloropropene U	trans-1,2-Dichloroethene	U		0.00120	0.00577	1	10/29/2023 07:12	WG2159991
1.3 Dichlorograpane	1,2-Dichloropropane	U		0.00164	0.00577	1	10/29/2023 07:12	WG2159991
cis-13-Dichloropropene U 0.000873 0.00288 1 10/29/2023 07:12 WG2159991 trans-13-Dichloropropene U 0.00131 0.00577 1 10/29/2023 07:12 WG2159991 Di-Sopropyl ether U 0.000473 0.0015 1 10/29/2023 07:12 WG2159991 Ethylberazne U 0.000473 0.0018 1 10/29/2023 07:12 WG2159991 Hexachloro-1,3-butadiene U 0.00699 0.0288 1 10/29/2023 07:12 WG2159991 Hexachloro-1,3-butadiene U 0.00699 0.0288 1 10/29/2023 07:12 WG2159991 Hexachloro-1,3-butadiene U 0.00699 0.0288 1 10/29/2023 07:12 WG2159991 Jespropyltoluene U 0.00294 0.00577 1 10/29/2023 07:12 WG2159991 4-Methylae-Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 4-Methyl-2-pentanone (MIBK) U 0.00263 0.0288 1 10/29/2023 07:12 WG21	1,1-Dichloropropene	U		0.000933	0.00288	1	10/29/2023 07:12	WG2159991
trans-1,3-Dichloropropene U 0 0.00131 0.00577 1 102/9/2023 07:12 W62159991 2,2-Dichloropropane U 0.000159 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000457 0.00158 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.0004550 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.0004550 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000450 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000490 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000490 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000490 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.00322 0.115 1 102/9/2023 07:12 W62159991 Methylene Chloride U 0.00766 0.0288 1 102/9/2023 07:12 W62159991 Methylene Chloride U 0.000663 0.0288 1 102/9/2023 07:12 W62159991 Methylene Chloride U 0.000663 0.0288 1 102/9/2023 07:12 W62159991 Methyl tert-butyl ether U 0.000404 0.00115 1 102/9/2023 07:12 W62159991 Methylene U 0.000663 0.0144 1 102/9/2023 07:12 W62159991 Methylene U 0.000663 0.0144 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.0000640 0.0015 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000664 0.0144 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000670 0.00288 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000674 0.0015 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000674 0.0015 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.000674 0.0015 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.00162 0.00577 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.00162 0.00577 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.00162 0.00577 1 102/9/2023 07:12 W62159991 Dissporpyl ether U 0.00162 0.00577 1 102/9/2023 07:12 W62159991 Dis	1,3-Dichloropropane	U		0.000578	0.00577	1	10/29/2023 07:12	WG2159991
2,2-Dichloropropane U 0.00159 0.00288 1 10/29/2023 07:12 WG2159991 Di-Isopropyl ether U 0.000473 0.00115 1 10/29/2023 07:12 WG2159991 Hexachloro-1,3-budalene U 0.000850 0.00288 1 10/29/2023 07:12 WG2159991 Isopropylbenzene U 0.000490 0.00288 1 10/29/2023 07:12 WG2159991 Jebanoropylbenzene U 0.00294 0.00577 1 10/29/2023 07:12 WG2159991 Jebanore (MEK) U 0.00732 0.115 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 Methyl Lether U 0.00263 0.0288 1 10/29/2023 07:12 WG2159991 Methyl Lether buly ether U 0.00563 0.044 1 10/29/2023 07:12 WG2159991 Methyl Lether buly ether U 0.00563 0.044 1 10/29/2023 07:12 WG2159991	cis-1,3-Dichloropropene	U		0.000873	0.00288	1	10/29/2023 07:12	WG2159991
Dispropy ether	trans-1,3-Dichloropropene	U		0.00131	0.00577	1	10/29/2023 07:12	WG2159991
Ethythenzene U 0.000850 0.00288 1 10/29/2023 07:12 W62159991 Hexachtor-1.3-butadiene U 0.00092 0.0288 1 10/29/2023 07:12 W62159991 Hexachtor-1.3-butadiene U 0.00094 0.00288 1 10/29/2023 07:12 W62159991 Hexachtor-1.3-butadiene U 0.00094 0.00288 1 10/29/2023 07:12 W62159991 Hexachtor-1.3-butadiene U 0.000294 0.00577 1 10/29/2023 07:12 W62159991 Hexachtor-1.3-butadiene (MBK) U 0.00732 0.115 1 10/29/2023 07:12 W62159991 Hextlynene Chioride U 0.00766 0.0288 1 10/29/2023 07:12 W62159991 Hextlynene Chioride U 0.000663 0.0288 1 10/29/2023 07:12 W62159991 Hextlynene Chioride U 0.000663 0.0288 1 10/29/2023 07:12 W62159991 Hextlynene Chioride U 0.000663 0.0288 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000663 0.0288 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000663 0.0144 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000663 0.0144 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000664 0.0014 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000664 0.0014 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000664 0.0014 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000664 0.00288 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000664 0.00288 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000665 0.00288 1 10/29/2023 07:12 W62159991 Hextlynene U 0.000670 0.00288 1 10/29/2023 07:12 W62159991 Hex	2,2-Dichloropropane	U		0.00159	0.00288	1	10/29/2023 07:12	WG2159991
Hexachloro-1,3-butadiene U 0,00692 0,0288 1 10/29/2023 07:12 W62159991 Modern	Di-isopropyl ether	U		0.000473	0.00115	1	10/29/2023 07:12	WG2159991
Sopropylbenzene	Ethylbenzene	U		0.000850	0.00288	1	10/29/2023 07:12	WG2159991
p-Isopropyltoluene U 0.00294 0.00577 1 10/29/2023 07:12 WG2159991 2-Butanone (MEK) U 0.0732 0.115 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00263 0.0288 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00040 0.00115 1 10/29/2023 07:12 WG2159991 Methylene U 0.00063 0.0288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00110 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00110 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00110 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000864 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00689 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000674 0.0015 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00167 0.00167 0.0044 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00167 0.0015 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00162 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Na	Hexachloro-1,3-butadiene	U		0.00692	0.0288	1	10/29/2023 07:12	WG2159991
2-Butanone (MEK) U 0.0732 0.115 1 10/29/2023 07:12 WG2159991 Methylene Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 4-Methyl-2-pentanone (MIBK) U 0.00263 0.0288 1 10/29/2023 07:12 WG2159991 Methyl ether U 0.000404 0.00115 1 10/29/2023 07:12 WG2159991 Methyl ether U 0.000404 0.00115 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00057 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000264 0.00082 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00069 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00069 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 Naphthale	Isopropylbenzene	U		0.000490	0.00288	1	10/29/2023 07:12	WG2159991
Methylene Chloride U 0.00766 0.0288 1 10/29/2023 07:12 WG2159991 4-Methyl-2-pentanone (MIBK) U 0.00263 0.0288 1 10/29/2023 07:12 WG2159991 Methyl tert-butyl ether U 0.00404 0.00115 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.0010 0.00577 1 10/29/2023 07:12 WG2159991 Styrene U 0.00100 0.00577 1 10/29/2023 07:12 WG2159991 1,1,2-Trichlorotethane U 0.00109 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichlorotethane U 0.00880 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethane U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethane U 0.00105 0.0057 1 10/29/2023 07:12 WG2159991	p-Isopropyltoluene	U		0.00294	0.00577	1	10/29/2023 07:12	WG2159991
A-Methyl-2-pentanone (MIBK) U 0.00263 0.0288 1 10/29/2023 07:12 WG2159991 Methyl tert-butyl ether U 0.000404 0.00115 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00577 1 10/29/2023 07:12 WG2159991 Styrene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 11,12-Tertachloroethane U 0.00109 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Tertachloroethane U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichlorotrifluoroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 11,2-Trichloroethane U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 11,2-Trichloroethane U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 11,2-Trichloroethane U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 11,12-Trichloroethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 11,2-Trichloroethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 11,2-Trichloroethane U 0.000674 0.00185 1 10/29/2023 07:12 WG2159991 11,2-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 11,2-Trichloropropane U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 11,3-Trichloropropane U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 11,3-Trichloropropane U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991	2-Butanone (MEK)	U		0.0732	0.115	1	10/29/2023 07:12	WG2159991
Methyl tert-butyl ether U 0.000404 0.00115 1 10/29/2023 07:12 WG2159991 Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 WG2159991 Styrene U 0.00110 0.00577 1 10/29/2023 07:12 WG2159991 Styrene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1,2-Frichaloroethane U 0.00109 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Frichloroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Frichloroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethane U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Frichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,	Methylene Chloride	U		0.00766	0.0288	1	10/29/2023 07:12	WG2159991
Naphthalene U 0.00563 0.0144 1 10/29/2023 07:12 W62159991 n-Propylbenzene U 0.00110 0.00577 1 10/29/2023 07:12 W62159991 Styrene U 0.000264 0.0144 1 10/29/2023 07:12 W62159991 1,1,1,2-Tetrachloroethane U 0.000802 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchlorotrifluoroethane U 0.000802 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchlorotrifluoroethane U 0.000802 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchlorotrifluoroethane U 0.000870 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchlorotethane U 0.00103 0.00288 1 10/29/2023 07:12 W62159991 1,2,3-Tirchlorobenzene U 0.00150 0.00577 1 10/29/2023 07:12 W62159991 1,2,3-Tirchlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 W62159991 1,1,1-Tirchlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 W62159991 1,1,1-Tirchloroethane U 0.00166 0.00288 1 10/29/2023 07:12 W62159991 1,1,1-Tirchloroethane U 0.000689 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchloroethane U 0.000689 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Tirchloroethane U 0.000674 0.00115 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloroethane U 0.00087 0.0144 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloroethane U 0.000689 0.00288 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloroethane U 0.000674 0.00115 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloroethane U 0.00087 0.0144 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloropropane U 0.00187 0.0144 1 10/29/2023 07:12 W62159991 1,2,3-Tirchloropropane U 0.00182 0.00577 1 10/29/2023 07:12 W62159991 1,2,3-Tirmethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00184 0.00184 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00334 0.00288 1 10/29/2023 07:12 W62159991	4-Methyl-2-pentanone (MIBK)	U		0.00263	0.0288	1	10/29/2023 07:12	WG2159991
n-Propylbenzene U 0.00110 0.00577 1 10/29/2023 07:12 WG2159991 Styrene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1,2-Tetrachloroethane U 0.00109 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2,2-Tetrachloroethane U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichlorotrifluoroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethene U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00166 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 Trichloroethene U 0.000674 0.0015 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991	Methyl tert-butyl ether	U		0.000404	0.00115	1	10/29/2023 07:12	WG2159991
Styrene U 0.000264 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1,2-Tetrachloroethane U 0.00109 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethane U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.000674 0.0015 1 10/29/2023 07:12 WG2159991	Naphthalene	U		0.00563	0.0144	1	10/29/2023 07:12	WG2159991
1,1,1,2-Tetrachloroethane U 0,00109 0,00288 1 10/29/2023 07:12 WG2159991 1,1,2-Tetrachloroethane U 0,000802 0,00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichlorotrifluoroethane U 0,000870 0,00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethene U 0,00103 0,00288 1 10/29/2023 07:12 WG2159991 Toluene U 0,00150 0,00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloroebnzene U 0,00845 0,0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0,00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0,00166 0,00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0,000689 0,00288 1 10/29/2023 07:12 WG2159991 Trichloroethane U 0,000674 0,00115 1 10/29/2023 07:12 WG2159991 Trichloropropane U 0,00182 0,00577	n-Propylbenzene	U		0.00110	0.00577	1	10/29/2023 07:12	WG2159991
1,1,2,2-Tetrachloroethane U 0.000802 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichlorotrifluoroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethene U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 Trichlorofluoromethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577<	Styrene	U		0.000264	0.0144	1	10/29/2023 07:12	WG2159991
1,1,2-Trichlorotrifluoroethane U 0.000870 0.00288 1 10/29/2023 07:12 WG2159991 Tetrachloroethene U 0.00103 0.00288 1 10/29/2023 07:12 WG2159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorofluoromethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.005	1,1,1,2-Tetrachloroethane	U		0.00109	0.00288	1	10/29/2023 07:12	WG2159991
Tetrachloroethene U 0.00103 0.00288 1 10/29/2023 07:12 W62159991 Toluene U 0.00150 0.00577 1 10/29/2023 07:12 W62159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 W62159991 1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 W62159991 1,1,1-Trichloroethane U 0.00166 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 W62159991 1,1,2-Trichloroethane U 0.000674 0.00115 1 10/29/2023 07:12 W62159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 W62159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 W62159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 W62159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 W62159991	1,1,2,2-Tetrachloroethane	U		0.000802	0.00288	1	10/29/2023 07:12	WG2159991
Toluene U 0.00150 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991	1,1,2-Trichlorotrifluoroethane	U		0.000870	0.00288	1	10/29/2023 07:12	WG2159991
1,2,3-Trichlorobenzene U 0.00845 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 Trichloroethene U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 Trichlorofluoromethane U J4 0.000954 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	Tetrachloroethene	U		0.00103	0.00288	1	10/29/2023 07:12	WG2159991
1,2,4-Trichlorobenzene U 0.00507 0.0144 1 10/29/2023 07:12 WG2159991 1,1,1-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991	Toluene	U		0.00150	0.00577	1	10/29/2023 07:12	WG2159991
1,1,1-Trichloroethane U 0.00106 0.00288 1 10/29/2023 07:12 WG2159991 1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 Trichloroethene U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 Trichlorofluoromethane U 0.00087 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,2,3-Trichlorobenzene	U		0.00845	0.0144	1	10/29/2023 07:12	WG2159991
1,1,2-Trichloroethane U 0.000689 0.00288 1 10/29/2023 07:12 WG2159991 Trichloroethene U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 Trichlorofluoromethane U J4 0.000954 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,2,4-Trichlorobenzene	U		0.00507	0.0144	1	10/29/2023 07:12	WG2159991
Trichloroethene U 0.000674 0.00115 1 10/29/2023 07:12 WG2159991 Trichlorofluoromethane U J4 0.000954 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,1,1-Trichloroethane	U		0.00106	0.00288	1	10/29/2023 07:12	WG2159991
Trichlorofluoromethane U J4 0.000954 0.00288 1 10/29/2023 07:12 WG2159991 1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,1,2-Trichloroethane	U		0.000689	0.00288	1	10/29/2023 07:12	WG2159991
1,2,3-Trichloropropane U 0.00187 0.0144 1 10/29/2023 07:12 WG2159991 1,2,4-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	Trichloroethene	U		0.000674	0.00115	1	10/29/2023 07:12	WG2159991
1,2,4-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	Trichlorofluoromethane	U	<u>J4</u>	0.000954	0.00288	1	10/29/2023 07:12	WG2159991
1,2,3-Trimethylbenzene U 0.00182 0.00577 1 10/29/2023 07:12 WG2159991 1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,2,3-Trichloropropane	U		0.00187	0.0144	1	10/29/2023 07:12	WG2159991
1,3,5-Trimethylbenzene U 0.00231 0.00577 1 10/29/2023 07:12 WG2159991 Vinyl chloride U J4 0.00134 0.00288 1 10/29/2023 07:12 WG2159991	1,2,4-Trimethylbenzene	U		0.00182	0.00577	1	10/29/2023 07:12	WG2159991
Vinyl chloride U <u>J4</u> 0.00134 0.00288 1 10/29/2023 07:12 <u>WG2159991</u>	1,2,3-Trimethylbenzene	U		0.00182	0.00577	1	10/29/2023 07:12	WG2159991
	1,3,5-Trimethylbenzene	U		0.00231	0.00577	1	10/29/2023 07:12	WG2159991
Xylenes, Total 0.00546 <u>J</u> 0.00101 0.00750 1 10/29/2023 07:12 <u>WG2159991</u>	Vinyl chloride	U	<u>J4</u>	0.00134	0.00288	1	10/29/2023 07:12	WG2159991
-	Xylenes, Total	0.00546	<u>J</u>	0.00101	0.00750	1	10/29/2023 07:12	WG2159991
(S) Toluene-d8 105 75.0-131 10/29/2023 07:12 <u>WG2159991</u>	(S) Toluene-d8	105			75.0-131		10/29/2023 07:12	WG2159991
(S) 4-Bromofluorobenzene 99.2 67.0-138 10/29/2023 07:12 <u>WG2159991</u>	(S) 4-Bromofluorobenzene	99.2			67.0-138		10/29/2023 07:12	WG2159991

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg	Qualifici	mg/kg	mg/kg	Dilution	date / time	Butch
Diesel Range Organics (DRO)	7.19	<u>J</u>	7.15	21.5	5	11/01/2023 09:39	WG2161014
Residual Range Organics (RRO)	74.9		17.8	53.7	5	11/01/2023 09:39	WG2161014
(S) o-Terphenyl	50.9			18.0-148		11/01/2023 09:39	WG2161014

70.0-130

Sample Narrative:

(S) 1,2-Dichloroethane-d4

L1670148-09 WG2161014: Sample resembles laboratory standard for Hydraulic Oil

99.8

NF-SD-DUP11

(S) 2-Fluorobiphenyl

SAMPLE RESULTS - 09

Collected date/time: 10/23/23 16:25

L1670148

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

67.2

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		<u> </u>
Anthracene	U		0.00247	0.00645	1	11/01/2023 19:12	WG2161016	² T(
Acenaphthene	U		0.00225	0.00645	1	11/01/2023 19:12	WG2161016	
Acenaphthylene	U		0.00232	0.00645	1	11/01/2023 19:12	WG2161016	3
Benzo(a)anthracene	0.00779		0.00186	0.00645	1	11/01/2023 19:12	WG2161016	³ Ss
Benzo(a)pyrene	0.0133		0.00192	0.00645	1	11/01/2023 19:12	WG2161016	
Benzo(b)fluoranthene	0.0145		0.00164	0.00645	1	11/01/2023 19:12	WG2161016	⁴ C ₁
Benzo(g,h,i)perylene	0.0192		0.00190	0.00645	1	11/01/2023 19:12	WG2161016	
Benzo(k)fluoranthene	0.00378	<u>J</u>	0.00231	0.00645	1	11/01/2023 19:12	WG2161016	5
Chrysene	0.00840		0.00249	0.00645	1	11/01/2023 19:12	WG2161016	⁵ D:
Dibenz(a,h)anthracene	0.00325	<u>J</u>	0.00185	0.00645	1	11/01/2023 19:12	WG2161016	
Fluoranthene	0.0153		0.00244	0.00645	1	11/01/2023 19:12	WG2161016	⁶ Sr
Fluorene	U		0.00220	0.00645	1	11/01/2023 19:12	WG2161016	31
Indeno(1,2,3-cd)pyrene	0.0125		0.00195	0.00645	1	11/01/2023 19:12	WG2161016	7
Naphthalene	U		0.00439	0.0215	1	11/01/2023 19:12	WG2161016	Í Q
Phenanthrene	0.00725		0.00248	0.00645	1	11/01/2023 19:12	WG2161016	
Pyrene	0.0167		0.00215	0.00645	1	11/01/2023 19:12	WG2161016	⁸ G
1-Methylnaphthalene	U		0.00483	0.0215	1	11/01/2023 19:12	WG2161016	
2-Methylnaphthalene	U		0.00459	0.0215	1	11/01/2023 19:12	WG2161016	9
2-Chloronaphthalene	U		0.00501	0.0215	1	11/01/2023 19:12	WG2161016	Al
(S) p-Terphenyl-d14	65.7			23.0-120		11/01/2023 19:12	WG2161016	
(S) Nitrobenzene-d5	62.7			14.0-149		11/01/2023 19:12	WG2161016	10

34.0-125



















WG2161016

11/01/2023 19:12

NF-SD-DUP11

SAMPLE RESULTS - 10

Collected date/time: 10/23/23 16:25 Preparation by Method 1311

	Result	Qualifier	Prep	Batch
Analyte			date / time	
TCLP Extraction	-		10/27/2023 11:49:31 AM	WG2159083
Initial pH	8.54		10/27/2023 11:49:31 AM	WG2159083
Final pH	5.01		10/27/2023 11:49:31 AM	WG2159083





Ss

Mercury by Method 7470A

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Mercury	ND		0.0100	0.20	1	10/29/2023 15:49	WG2159878





Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Limit	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Arsenic	ND		0.100	5	1	10/29/2023 15:05	WG2160108
Barium	0.280		0.100	100	1	10/29/2023 15:05	WG2160108
Cadmium	ND		0.100	1	1	10/29/2023 15:05	WG2160108
Chromium	ND		0.100	5	1	10/29/2023 15:05	WG2160108
Lead	ND		0.100	5	1	10/29/2023 15:05	WG2160108
Selenium	ND		0.100	1	1	10/29/2023 15:05	WG2160108
Silver	ND		0.100	5	1	10/29/2023 15:05	WG2160108













SAMPLE RESULTS - 11

Collected date/time: 10/23/23 16:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	97.7		1	10/28/2023 09:44	WG2159740

²Tc

Mercury by Method 7471B

	Result (dry)	<u>Qualifier</u>	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0184	0.0410	1	10/31/2023 14:28	WG2159649



Cn

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	15.7		0.530	2.05	1	10/30/2023 21:50	WG2159786
Barium	62.3	<u>O1</u>	0.0872	0.512	1	10/30/2023 21:50	WG2159786
Cadmium	U		0.0482	0.512	1	10/30/2023 21:50	WG2159786
Chromium	2360	<u>O1 V</u>	0.136	1.02	1	10/30/2023 21:50	WG2159786
Lead	33.4	<u>O1</u>	0.213	0.512	1	10/30/2023 21:50	WG2159786
Selenium	17.2		0.782	2.05	1	10/30/2023 21:50	WG2159786
Silver	U		0.130	1.02	1	10/30/2023 21:50	WG2159786



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Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	3.95		0.899	2.65	25.3	11/01/2023 15:07	WG2161809
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		11/01/2023 15:07	WG2161809



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0410	<u>J J3</u>	0.0387	0.0529	1.01	10/29/2023 07:31	WG2159991
Acrylonitrile	U		0.00382	0.0132	1.01	10/29/2023 07:31	WG2159991
Benzene	U		0.000495	0.00106	1.01	10/29/2023 07:31	WG2159991
Bromobenzene	U		0.000952	0.0132	1.01	10/29/2023 07:31	WG2159991
Bromodichloromethane	U		0.000767	0.00265	1.01	10/29/2023 07:31	WG2159991
Bromoform	U		0.00124	0.0265	1.01	10/29/2023 07:31	WG2159991
Bromomethane	U		0.00209	0.0132	1.01	10/29/2023 07:31	WG2159991
n-Butylbenzene	U		0.00555	0.0132	1.01	10/29/2023 07:31	WG2159991
sec-Butylbenzene	U		0.00305	0.0132	1.01	10/29/2023 07:31	WG2159991
tert-Butylbenzene	U		0.00206	0.00529	1.01	10/29/2023 07:31	WG2159991
Carbon tetrachloride	U		0.000950	0.00529	1.01	10/29/2023 07:31	WG2159991
Chlorobenzene	U		0.000222	0.00265	1.01	10/29/2023 07:31	WG2159991
Chlorodibromomethane	U		0.000648	0.00265	1.01	10/29/2023 07:31	WG2159991
Chloroethane	U		0.00180	0.00529	1.01	10/29/2023 07:31	WG2159991
Chloroform	U		0.00109	0.00265	1.01	10/29/2023 07:31	WG2159991
Chloromethane	U		0.00460	0.0132	1.01	10/29/2023 07:31	WG2159991
2-Chlorotoluene	U		0.000916	0.00265	1.01	10/29/2023 07:31	WG2159991
4-Chlorotoluene	U		0.000477	0.00529	1.01	10/29/2023 07:31	WG2159991
1,2-Dibromo-3-Chloropropane	U		0.00413	0.0265	1.01	10/29/2023 07:31	WG2159991
1,2-Dibromoethane	U		0.000685	0.00265	1.01	10/29/2023 07:31	WG2159991
Dibromomethane	U		0.000793	0.00529	1.01	10/29/2023 07:31	WG2159991
1,2-Dichlorobenzene	U		0.000449	0.00529	1.01	10/29/2023 07:31	WG2159991
1,3-Dichlorobenzene	U		0.000635	0.00529	1.01	10/29/2023 07:31	WG2159991
1,4-Dichlorobenzene	U		0.000741	0.00529	1.01	10/29/2023 07:31	WG2159991
Dichlorodifluoromethane	U		0.00171	0.00265	1.01	10/29/2023 07:31	WG2159991
1,1-Dichloroethane	U		0.000520	0.00265	1.01	10/29/2023 07:31	WG2159991
1,2-Dichloroethane	U		0.000686	0.00265	1.01	10/29/2023 07:31	WG2159991

SAMPLE RESULTS - 11

Collected date/time: 10/23/23 16:40

1670148

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
1,1-Dichloroethene	U		0.000641	0.00265	1.01	10/29/2023 07:31	WG2159991
cis-1,2-Dichloroethene	U		0.000776	0.00265	1.01	10/29/2023 07:31	WG2159991
trans-1,2-Dichloroethene	U		0.00110	0.00529	1.01	10/29/2023 07:31	WG2159991
1,2-Dichloropropane	U		0.00150	0.00529	1.01	10/29/2023 07:31	WG2159991
1,1-Dichloropropene	U		0.000856	0.00265	1.01	10/29/2023 07:31	WG2159991
1,3-Dichloropropane	U		0.000530	0.00529	1.01	10/29/2023 07:31	WG2159991
cis-1,3-Dichloropropene	U		0.000802	0.00265	1.01	10/29/2023 07:31	WG2159991
trans-1,3-Dichloropropene	U		0.00120	0.00529	1.01	10/29/2023 07:31	WG2159991
2,2-Dichloropropane	U		0.00146	0.00265	1.01	10/29/2023 07:31	WG2159991
Di-isopropyl ether	U		0.000434	0.00106	1.01	10/29/2023 07:31	WG2159991
Ethylbenzene	0.00611		0.000780	0.00265	1.01	10/29/2023 07:31	WG2159991
Hexachloro-1,3-butadiene	U		0.00635	0.0265	1.01	10/29/2023 07:31	WG2159991
Isopropylbenzene	0.00156	<u>J</u>	0.000449	0.00265	1.01	10/29/2023 07:31	WG2159991
p-Isopropyltoluene	0.00973	В	0.00270	0.00529	1.01	10/29/2023 07:31	WG2159991
2-Butanone (MEK)	U		0.0672	0.106	1.01	10/29/2023 07:31	WG2159991
Methylene Chloride	U		0.00703	0.0265	1.01	10/29/2023 07:31	WG2159991
4-Methyl-2-pentanone (MIBK)	0.0193	<u>J</u>	0.00241	0.0265	1.01	10/29/2023 07:31	WG2159991
Methyl tert-butyl ether	U		0.000370	0.00106	1.01	10/29/2023 07:31	WG2159991
Naphthalene	U		0.00517	0.0132	1.01	10/29/2023 07:31	WG2159991
n-Propylbenzene	U		0.00100	0.00529	1.01	10/29/2023 07:31	WG2159991
Styrene	U		0.000242	0.0132	1.01	10/29/2023 07:31	WG2159991
1,1,1,2-Tetrachloroethane	U		0.00100	0.00265	1.01	10/29/2023 07:31	WG2159991
1,1,2,2-Tetrachloroethane	U		0.000736	0.00265	1.01	10/29/2023 07:31	WG2159991
1,1,2-Trichlorotrifluoroethane	U		0.000798	0.00265	1.01	10/29/2023 07:31	WG2159991
Tetrachloroethene	U		0.000948	0.00265	1.01	10/29/2023 07:31	WG2159991
Toluene	0.00206	<u>J</u>	0.00137	0.00529	1.01	10/29/2023 07:31	WG2159991
1,2,3-Trichlorobenzene	U		0.00775	0.0132	1.01	10/29/2023 07:31	WG2159991
1,2,4-Trichlorobenzene	U		0.00465	0.0132	1.01	10/29/2023 07:31	WG2159991
1,1,1-Trichloroethane	U		0.000977	0.00265	1.01	10/29/2023 07:31	WG2159991
1,1,2-Trichloroethane	U		0.000632	0.00265	1.01	10/29/2023 07:31	WG2159991
Trichloroethene	U		0.000618	0.00106	1.01	10/29/2023 07:31	WG2159991
Trichlorofluoromethane	U	<u>J4</u>	0.000875	0.00265	1.01	10/29/2023 07:31	WG2159991
1,2,3-Trichloropropane	U		0.00172	0.0132	1.01	10/29/2023 07:31	WG2159991
1,2,4-Trimethylbenzene	0.00243	<u>J</u>	0.00168	0.00529	1.01	10/29/2023 07:31	WG2159991
1,2,3-Trimethylbenzene	U		0.00168	0.00529	1.01	10/29/2023 07:31	WG2159991
1,3,5-Trimethylbenzene	0.00238	<u>J</u>	0.00212	0.00529	1.01	10/29/2023 07:31	WG2159991
Vinyl chloride	U	<u>J4</u>	0.00123	0.00265	1.01	10/29/2023 07:31	WG2159991
Xylenes, Total	0.0852		0.000931	0.00687	1.01	10/29/2023 07:31	WG2159991
(S) Toluene-d8	106			75.0-131		10/29/2023 07:31	WG2159991
(S) 4-Bromofluorobenzene	101			67.0-138		10/29/2023 07:31	WG2159991

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	<u>'</u>	(/)					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	13.0		1.36	4.10	1	11/01/2023 00:52	WG2161014
Residual Range Organics (RRO)	55.8		3.41	10.2	1	11/01/2023 00:52	WG2161014
(S) o-Terphenyl	63.6			18.0-148		11/01/2023 00:52	WG2161014

70.0-130

Sample Narrative:

(S) 1,2-Dichloroethane-d4

L1670148-11 WG2161014: Sample resembles laboratory standard for Hydraulic Oil.

WG2159991

10/29/2023 07:31

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NF-SD-MS1

(S) 2-Fluorobiphenyl

SAMPLE RESULTS - 11

Collected date/time: 10/23/23 16:40

L1670148

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

70.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>	Ср
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Anthracene	U		0.00236	0.00614	1	11/01/2023 17:59	WG2161016	² Tc
Acenaphthene	U		0.00214	0.00614	1	11/01/2023 17:59	WG2161016	10
Acenaphthylene	0.00244	<u>J</u>	0.00221	0.00614	1	11/01/2023 17:59	WG2161016	3
Benzo(a)anthracene	0.0148		0.00177	0.00614	1	11/01/2023 17:59	WG2161016	Ss
Benzo(a)pyrene	0.0244		0.00183	0.00614	1	11/01/2023 17:59	WG2161016	
Benzo(b)fluoranthene	0.0283		0.00157	0.00614	1	11/01/2023 17:59	WG2161016	⁴ Cn
Benzo(g,h,i)perylene	0.0256		0.00181	0.00614	1	11/01/2023 17:59	WG2161016	OIT
Benzo(k)fluoranthene	0.00807		0.00220	0.00614	1	11/01/2023 17:59	WG2161016	5
Chrysene	0.0180		0.00238	0.00614	1	11/01/2023 17:59	WG2161016	Ds
Dibenz(a,h)anthracene	0.00320	<u>J</u>	0.00176	0.00614	1	11/01/2023 17:59	WG2161016	
Fluoranthene	0.0347		0.00232	0.00614	1	11/01/2023 17:59	WG2161016	⁶ Sr
Fluorene	U		0.00210	0.00614	1	11/01/2023 17:59	WG2161016	01
Indeno(1,2,3-cd)pyrene	0.0238		0.00185	0.00614	1	11/01/2023 17:59	WG2161016	7
Naphthalene	U		0.00418	0.0205	1	11/01/2023 17:59	WG2161016	[°] Qc
Phenanthrene	0.0130		0.00237	0.00614	1	11/01/2023 17:59	WG2161016	
Pyrene	0.0356		0.00205	0.00614	1	11/01/2023 17:59	WG2161016	⁸ Gl
1-Methylnaphthalene	U		0.00460	0.0205	1	11/01/2023 17:59	WG2161016	O.
2-Methylnaphthalene	U		0.00437	0.0205	1	11/01/2023 17:59	WG2161016	9
2-Chloronaphthalene	U		0.00477	0.0205	1	11/01/2023 17:59	WG2161016	Al
(S) p-Terphenyl-d14	72.2			23.0-120		11/01/2023 17:59	WG2161016	
(S) Nitrobenzene-d5	69.1			14.0-149		11/01/2023 17:59	WG2161016	10

34.0-125





















WG2161016

11/01/2023 17:59

NF-SD-MS1

SAMPLE RESULTS - 12 L1670148

Collected date/time: 10/23/23 16:40

Preparation by Method 1311										
	Result	Qualifier	Prep	Batch						
Analyte			date / time							
TCLP Extraction	-		10/27/2023 11:49:31 AM	WG2159083						
Initial pH	5.51		10/27/2023 11:49:31 AM	WG2159083						
Final pH	5.01		10/27/2023 11:49:31 AM	WG2159083						



Ss

Mercury by Method 7470A

	Result	Qualifier	RDL	Limit	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l		date / time	
Mercury	ND		0.0100	0.20	1	10/29/2023 15:51	WG2159878





Metals (ICP) by Method 6010D

	Result	Qualifier	RDL	Limit	Dilution	Analysis	<u>Batch</u>
Analyte	mg/l		mg/l	mg/l		date / time	
Arsenic	ND		0.100	5	1	10/29/2023 15:08	WG2160108
Barium	0.357		0.100	100	1	10/29/2023 15:08	WG2160108
Cadmium	ND		0.100	1	1	10/29/2023 15:08	WG2160108
Chromium	ND		0.100	5	1	10/29/2023 15:08	WG2160108
Lead	ND		0.100	5	1	10/29/2023 15:08	WG2160108
Selenium	ND		0.100	1	1	10/29/2023 15:08	WG2160108
Silver	ND		0.100	5	1	10/29/2023 15:08	WG2160108













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QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

L1670148-03,05,07,09,11

Method Blank (MB)

(MB) R3992655	5-1 10/28/23 09:44			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

³Ss

L1670131-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1670131-05 10/28/23 09:44 • (DUP) R3992655-3 10/28/23 09:44

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.1	79.3	1	0.937		10

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Laboratory Control Sample (LCS)

(LCS) R3992655-2 10/28/23 09:44



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QUALITY CONTROL SUMMARY

L1670148-04,06,08,10,12

Mercury by Method 7470A

(MB) R3992507-1 10/29/23 15:06

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	U		0.00330	0.0100







Laboratory Control Sample (LCS)

(LCS) R3992507-2 10/29/23 15:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Mercury	0.0300	0.0339	113	80.0-120	









(OS) L1669671-02 10/29/23 15:10 • (MS) R3992507-3 10/29/23 15:13 • (MSD) R3992507-4 10/29/23 15:16

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	n Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.0300	ND	0.0336	0.0333	112	111	1	75.0-125			0.920	20







PAGE:

QUALITY CONTROL SUMMARY

L1670148-07,09

Mercury by Method 7471B

(MB) R3992571-1 10/29/23 18:05

Method Blank (MB)

(,	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Mercury	U		0.0180	0.0400	





Ss

Laboratory Control Sample (LCS)

(LCS) R3992571-2	10/29/23 18:08
	6 11 4

	Spike Amount LCS Result		LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.538	108	80.0-120	





Sr



(OS) L1670155-01 10/29/23 18:15 • (MS) R3992571-3 10/29/23 18:17 • (MSD) R3992571-4 10/29/23 18:20

(2.5) =	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.647	U	0.622	0.640	96.0	98.9	1	75.0-125			2.95	20

SDG:

L1670148

DATE/TIME:

11/03/23 13:39











PAGE:

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QUALITY CONTROL SUMMARY

L1670148-03,05,11

Mercury by Method 7471B

Method Blank (MB)

(MB) R3993452-1 10/31/23 13:09 MB Result MB MDL MB RDL MB Qualifier Analyte mg/kg mg/kg mg/kg U Mercury 0.0180 0.0400





Ss

Laboratory Control Sample (LCS)

(LCS) R3993452-2 10/31/23 13:11

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.501	100	80.0-120	





Sr



(OS) L1669078-01 10/31/23 13:14 • (MS) R3993452-3 10/31/23 13:16 • (MSD) R3993452-4 10/31/23 13:55

(00) 2.000070 0070%20	Spike Amount (dry)		•	•		MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.503	U	0.499	0.491	99.2	97.6	1	75.0-125			1.67	20











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QUALITY CONTROL SUMMARY

L1670148-03,05,07,09,11

Method Blank (MB)

Metals (ICP) by Method 6010D

(MB) R3993066-1 10/30/23 21:44 MB RDL MB Result MB Qualifier MB MDL Analyte mg/kg mg/kg mg/kg U Arsenic 0.518 2.00 0.0852 0.500 Barium Cadmium U 0.0471 0.500 U 0.133 1.00 Chromium Lead U 0.208 0.500 U Selenium 0.764 2.00 Silver U 0.127 1.00

LCS Qualifier

²Tc







Laboratory Control Sample (LCS)

(LCS) R3993066-2 10/30/23 21:47

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	mg/kg	mg/kg	%	%
Arsenic	100	103	103	80.0-120
Barium	100	106	106	80.0-120
Cadmium	100	102	102	80.0-120
Chromium	100	101	101	80.0-120
Lead	100	99.4	99.4	80.0-120
Selenium	100	100	100	80.0-120
Silver	20.0	20.3	101	80.0-120













L1670148-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670148-11 10/30/23 21:50 • (MS) R3993066-5 10/30/23 21:58 • (MSD) R3993066-6 10/30/23 22:01

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	102	15.7	116	111	98.4	92.7	1	75.0-125			5.13	20
Barium	102	62.3	156	154	92.0	89.3	1	75.0-125			1.77	20
Cadmium	102	U	102	97.4	99.2	95.1	1	75.0-125			4.26	20
Chromium	102	2360	2710	2260	343	0.000	1	75.0-125	<u>∨</u>	$\underline{\vee}$	18.2	20
Lead	102	33.4	127	123	91.2	87.8	1	75.0-125			2.79	20
Selenium	102	17.2	114	107	94.6	87.7	1	75.0-125			6.38	20
Silver	20.5	U	20.4	19.5	99.6	95.4	1	75.0-125			4.36	20

Lead

Selenium Silver

QUALITY CONTROL SUMMARY

L1670148-04,06,08,10,12

Method Blank (MB)

Metals (ICP) by Method 6010D

(MB) R3992638-1 10/29/23 14:23 MB RDL MB Result MB Qualifier MB MDL Analyte mg/l mg/l mg/l Arsenic U 0.0333 0.100 U 0.0333 0.100 Barium Cadmium U 0.0333 0.100 U 0.0333 0.100 Chromium







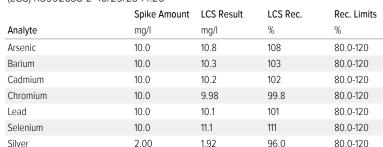


U

U

U

(LCS) R3992638-2 10/29/23 14:26







Sr









L1669671-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

0.0333

0.0333

0.0333

0.100

0.100

0.100

LCS Qualifier

(OS) L1669671-02 10/29/23 14:29 • (MS) R3992638-4 10/29/23 14:35 • (MSD) R3992638-5 10/29/23 14:38

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic	10.0	ND	10.8	10.8	108	108	1	75.0-125			0.00999	20
Barium	10.0	0.691	10.8	10.9	102	103	1	75.0-125			0.948	20
Cadmium	10.0	ND	10.0	10.1	100	101	1	75.0-125			1.14	20
Chromium	10.0	ND	9.80	9.98	98.0	99.8	1	75.0-125			1.87	20
Lead	10.0	ND	9.95	10.0	99.5	100	1	75.0-125			0.486	20
Selenium	10.0	ND	10.9	11.1	109	111	1	75.0-125			2.34	20
Silver	2.00	ND	1.90	1.92	94.8	96.1	1	75.0-125			1.33	20

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method NWTPHGX

L1670148-03,05,07,09

Method Blank (MB)

(MB) R3993919-2 10/31/2	MB) R3993919-2 10/31/23 16:28							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/kg		mg/kg	mg/kg				
Gasoline Range Organics-NWTPH	U		0.848	2.50				
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120				

Laboratory Control Sample (LCS)

(LCS) R3993919-1 10/31/2	23 15:03				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Gasoline Range Organics-NWTPH	5.50	5.49	99.8	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	













Volatile Organic Compounds (GC) by Method NWTPHGX

Method Blank (MB)

(MB) R3994145-3 11/01/23	3 03:08		(MB) R3994145-3 11/01/23 03:08								
	MB Result	MB Qualifier	MB MDL	MB RDL							
Analyte	mg/kg		mg/kg	mg/kg							
Gasoline Range Organics-NWTPH	U		0.848	2.50							
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120							

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3994145-1 11/01/23	(LCS) R3994145-1 11/01/23 01:24 • (LCSD) R3994145-2 11/01/23 01:44											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%		
Gasoline Range Organics-NWTPH	5.50	5.33	5.27	96.9	95.8	71.0-124			1.13	20		
(S) a,a,a-Trifluorotoluene(FID)				104	104	77.0-120						



L1670071-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670071-08 11/01/23	OS) L1670071-08 11/01/23 09:36 • (MS) R3994145-4 11/01/23 16:24 • (MSD) R3994145-5 11/01/23 16:51											
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Gasoline Range Organics-NWTPH	208	U	175	181	84.1	87.0	25	50.0-150			3.39	27
(S) a,a,a-Trifluorotoluene(FID)					103	103		77.0-120				





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

L1670148-03,05

Method Blank (MB)

(MB) R3993516-3 10/27/23	3 08:59				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Acetone	U		0.0365	0.0500	
Acrylonitrile	U		0.00361	0.0125	
Benzene	U		0.000467	0.00100	
Bromobenzene	U		0.000900	0.0125	
Bromodichloromethane	U		0.000725	0.00250	
Bromoform	U		0.00117	0.0250	
Bromomethane	U		0.00197	0.0125	
n-Butylbenzene	U		0.00525	0.0125	
sec-Butylbenzene	U		0.00288	0.0125	
ert-Butylbenzene	U		0.00195	0.00500	
Carbon tetrachloride	U		0.000898	0.00500	
Chlorobenzene	U		0.000210	0.00250	
Chlorodibromomethane	U		0.000612	0.00250	
Chloroethane	U		0.00170	0.00500	
Chloroform	U		0.00103	0.00250	
Chloromethane	U		0.00435	0.0125	
-Chlorotoluene	U		0.000865	0.00250	
-Chlorotoluene	U		0.000450	0.00500	
,2-Dibromo-3-Chloropropane	U		0.00390	0.0250	
,2-Dibromoethane	U		0.000648	0.00250	
Dibromomethane	U		0.000750	0.00500	
,2-Dichlorobenzene	U		0.000425	0.00500	
,3-Dichlorobenzene	U		0.000600	0.00500	
,4-Dichlorobenzene	U		0.000700	0.00500	
Dichlorodifluoromethane	U		0.00161	0.00500	
,1-Dichloroethane	U		0.000491	0.00250	
,2-Dichloroethane	U		0.000649	0.00250	
,1-Dichloroethene	U		0.000606	0.00250	
cis-1,2-Dichloroethene	U		0.000734	0.00250	
rans-1,2-Dichloroethene	U		0.00104	0.00500	
,2-Dichloropropane	U		0.00142	0.00500	
,1-Dichloropropene	U		0.000809	0.00250	
,3-Dichloropropane	U		0.000501	0.00500	
is-1,3-Dichloropropene	U		0.000757	0.00250	
rans-1,3-Dichloropropene	U		0.00114	0.00500	
2,2-Dichloropropane	U		0.00138	0.00250	
Di-isopropyl ether	U		0.000410	0.00100	
Ethylbenzene	U		0.000737	0.00250	
Hexachloro-1,3-butadiene	U		0.00600	0.0250	
Isopropylbenzene	U		0.000425	0.00250	

QUALITY CONTROL SUMMARY

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

L1670148-03,05

Method Blank (MB)

(MB) R3993516-3 10/27/2	3 08:59				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
p-Isopropyltoluene	U		0.00255	0.00500	
2-Butanone (MEK)	U		0.0635	0.100	
Methylene Chloride	U		0.00664	0.0250	
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	
Methyl tert-butyl ether	U		0.000350	0.00100	
Naphthalene	U		0.00488	0.0125	
n-Propylbenzene	U		0.000950	0.00500	
Styrene	U		0.000229	0.0125	
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	
Tetrachloroethene	U		0.000896	0.00250	
Toluene	U		0.00130	0.00500	
1,2,3-Trichlorobenzene	U		0.00733	0.0125	
1,2,4-Trichlorobenzene	U		0.00440	0.0125	
1,1,1-Trichloroethane	U		0.000923	0.00250	
1,1,2-Trichloroethane	U		0.000597	0.00250	
Trichloroethene	U		0.000584	0.00100	
Trichlorofluoromethane	U		0.000827	0.00250	
1,2,3-Trichloropropane	U		0.00162	0.0125	
1,2,4-Trimethylbenzene	U		0.00158	0.00500	
1,2,3-Trimethylbenzene	U		0.00158	0.00500	
1,3,5-Trimethylbenzene	U		0.00200	0.00500	
Vinyl chloride	U		0.00116	0.00250	
Xylenes, Total	U		0.000880	0.00650	
(S) Toluene-d8	102			75.0-131	
(S) 4-Bromofluorobenzene	93.4			67.0-138	
(S) 1,2-Dichloroethane-d4	119			70.0-130	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3993516-1 10/27	.CS) R3993516-1 10/27/23 07:24 • (LCSD) R3993516-2 10/27/23 07:43											
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%		
Acetone	0.625	0.699	0.819	112	131	10.0-160			15.8	31		
Acrylonitrile	0.625	0.847	0.905	136	145	45.0-153			6.62	22		
Benzene	0.125	0.121	0.123	96.8	98.4	70.0-123			1.64	20		
Bromobenzene	0.125	0.132	0.132	106	106	73.0-121			0.000	20		
Bromodichloromethane	0.125	0.135	0.136	108	109	73.0-121			0.738	20		

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

L1670148-03,05

Part	(LCS) R3993516-1 10/27/23											
Semble 1,025	Amalista							LCS Qualifier	LCSD Qualifier			
Review Industrian 0.125	·											
Bully before 10 10 10 10 10 10 10 1												
sck Duylindersone Q125 Q131 Q132 Q14 Q16 A3 to Q Linkon Harlandhord Q15 Q131 Q131 Q15 Q131 Q15 Q15 Q131 Q15 Q15 Q131 Q15 Q15 Q15 Q17 Q20 Q36 R60-128 Q12 Q20 Disclosed Incomerbane Q125 Q15 Q15 Q17 Q20 Q36 R60-128 Q22 Q2 Disclosed Informerbane Q125 Q152 Q153 Q18 Q18 Q12 Q2 Q2 Disclosed Informerbane Q125 Q153 Q18 Q18 Q12 Q12 Q2 Q2 Disclosed Informerbane Q125 Q143 Q15 Q15 Q15 Q15 Q15 Q15 Q15 Q15 Q15 Q16 Q16 Q16 Q16 Q17 Q16 Q17												
art Bully Designation 0.15 0.13 0.13 0.14 0.15 0.5 55-0.17 0.000 20 Claim Statistudios 0.15 0.15 0.17 92.0 93.6 76.0 128 1.72 20 Chlorodormomethane 0.15 0.15 0.17 92.0 93.6 76.0 128 1.72 20 Chlorodorm 0.15 0.15 0.17 92.0 93.6 76.0 128 1.72 20 Chlorodorm 0.15 0.17 92.0 93.6 76.0 128 2.25 20 Chlorodorm 0.15 0.13 0.13 0.14 10 10 10.18 2.26 2.0 Chlorodorman 0.15 0.13 0.31 0.15 11 10 10 13.18 15.0 20 Chlorodorman 0.15 0.13 0.13 92.0 90.4 99.0 10 10 75.0 20 L2 Delivorion-Chlorogopane 0.15 0.13 0.12	•											
cathon teachordee 0.75 0.16 0.131 101 105 66-028 3.88 20 Chinordehrame 0.75 0.15 0.17 9.20 9.36 76-078 1.77 20 Chinorehrame 0.75 0.18 0.17 9.20 9.36 76-078 1.77 20 Chinorehrame 0.15 0.18 0.13 0.18 11 66-038 2.92 2.01 Chinorehrame 0.15 0.13 0.18 0.18 10 10-18 10-18 2.01 Chinorehrame 0.15 0.13 0.13 16 16 0.75 124 15 2 Chinorehrame 0.15 0.13 0.15 11 16 0.75 0.14 15 2 Chinorehrame 0.15 0.13 0.13 0.15 18 0.12 0.14 10 0.02 0.02 Chinorehrame 0.15 0.12 0.12 0.12 0.12 0.12												
Chiconformence 0.15	·											
Chronolubromorethane 0,125 0,115 0,117 0,120 0,135 0,139 108 111 0,10-14 0,122 20 20 20 20 20 20 20												
Chiene C	Chlorobenzene											
Dictoring 1,15	Chlorodibromomethane											
Discombane 0,125												
2-Chlorobluene 0.125 0.132 0.134 106 107 75.0-124 1.50 20 Chlorobluene 0.125 0.144 0.145 115 116 75.0-124 0.692 20 L2 Dibromo-Chloropopene 0.125 0.145 0.115 101 100 74.0-128 0.797 20 L2 Dibromo-Chloropopene 0.125 0.131 0.125 101 100 74.0-128 0.797 20 Dibromomelhane 0.125 0.131 0.129 105 103 75.0-122 112 0.000 20 Q-Dichlorobenzene 0.125 0.121 0.121 9.6 9.6 76.0-124 0.00 20 20 Q-Dichlorobenzene 0.125 0.121 0.121 9.6 9.6 76.0-124 0.05 0.823 20 Q-Dichlorobenzene 0.125 0.124 0.124 12.2 9.76 9.8 76.0-124 0.00 20 Q-Dichlorobenzene 0.125 0.134 <td>Chloroform</td> <td></td>	Chloroform											
Productorounder 1,75	Chloromethane		0.143	0.135	114	108	51.0-138			5.76	20	
	2-Chlorotoluene	0.125	0.132	0.134	106	107	75.0-124			1.50	20	
2-Dibromoethane 0.125 0.126 0.125 101 100 74,0-128 0,797 20 Dibromoethane 0.125 0.131 0.129 105 103 75,0-122 1,54 20 2-Dichloroberzene 0.125 0.121 9.12 9.68 76,0-125 0.823 20 4-Dichloroberzene 0.125 0.122 0.122 9.76 77,0-121 0.000 20 A-Dichloroberzene 0.125 0.122 0.122 9.76 77,0-121 0.000 20 A-Dichloroberzene 0.125 0.147 0.154 118 123 70,0-127 4.65 20 A-Dichloroberzene 0.125 0.147 0.154 118 123 70,0-127 4.65 20 A-Dichloroberzene 0.125 0.152 0.154 0.154 118 123 70,0-127 4.65 20 A-Dichloroberzene 0.125 0.152 0.154 0.154 0.154 192 192 192 <td>-Chlorotoluene</td> <td>0.125</td> <td>0.144</td> <td>0.145</td> <td>115</td> <td>116</td> <td>75.0-124</td> <td></td> <td></td> <td>0.692</td> <td>20</td> <td></td>	-Chlorotoluene	0.125	0.144	0.145	115	116	75.0-124			0.692	20	
Description	,2-Dibromo-3-Chloropropane	0.125	0.115	0.113	92.0	90.4	59.0-130			1.75	20	
2-Dichlorobenzene 0.125 0.121 0.121 96.8 96.8 76.0-124 0.000 20 3-Dichlorobenzene 0.125 0.122 0.121 97.6 96.8 76.0-125 0.000 20 4-Dichlorobenzene 0.125 0.122 0.122 97.6 97.6 77.0-121 0.000 20 3-Dichlorobenzene 0.125 0.124 0.122 97.6 97.6 97.6 77.0-121 0.000 20 3-Dichlorodifluoremethane 0.125 0.144 0.166 33.2 84.8 43.0-156 1.90 20 3-Dichlorodifluoremethane 0.125 0.147 0.154 18 123 70.0-127 4.65 20 3-Dichlorobenzene 0.125 0.152 0.154 122 123 65.0-131 1.31 20 3-Dichlorobenzene 0.125 0.153 0.159 122 127 65.0-131 3.85 20 3-Si-12-Dichlorobenzene 0.125 0.158 0.158 0.159 122 127 65.0-131 3.85 20 3-Si-12-Dichlorobenzene 0.125 0.158 0.158 0.159 122 127 65.0-131 3.85 20 3-Dichloropopane 0.125 0.158 0.158 0.158 94.4 71.0-125 1.71 20 3-Dichloropopane 0.125 0.150 0.150 0.150 120 120 74.0-125 1.71 20 3-Dichloropopane 0.125 0.150 0.150 0.150 120 120 74.0-125 1.71 20 3-Dichloropopane 0.125 0.150 0.150 0.150 120 120 74.0-125 1.50 20 3-Dichloropopane 0.125 0.150 0.150 0.150 120 120 74.0-125 1.50 20 3-Dichloropopane 0.125 0.150 0.150 0.150 120 120 74.0-125 1.50 20 3-Dichloropopane 0.125 0.131 0.130 1.05 1.04 80.0-125 1.50 20 3-Dichloropopane 0.125 0.150 0.150 0.150 1.04 114 112 76.0-127 1.000 20 3-Dichloropopane 0.125 0.150 0.150 0.150 1.04 1.04 1.04 1.05 1.000 20 3-Dichloropopane 0.125 0.150 0.150 0.150 1.05 1.05 1.05 1.05	,2-Dibromoethane	0.125	0.126	0.125	101	100	74.0-128			0.797	20	
3-Dichlorobenzene 0.125 0.122 0.121 97.6 96.8 76.0-125 0.823 20 4-Dichlorobenzene 0.125 0.122 0.122 97.6 97.6 77.0-121 0.000 20 4-Dichlorobenzene 0.125 0.104 0.106 83.2 84.8 43.0-156 1.90 20 4-Dichlorobenzene 0.125 0.147 0.154 118 123 70.0-127 4.65 20 4.65 20 4.0000 2.0 4-Dichlorobenzene 0.125 0.154 0.154 122 123 65.0-131 3.35 20 4-Dichlorobenzene 0.125 0.153 0.159 122 127 65.0-131 3.85 20 4-Dichlorobenzene 0.125 0.158 0.158 0.158 94.4 94.4 73.0-125 0.000 20 4-Dichlorobenzene 0.125 0.158 0.158 0.158 94.4 94.4 73.0-125 0.000 20 4-Dichloropenzene 0.125 0.158 0.158 0.158 94.4 94.4 73.0-125 0.000 20 4-Dichloropenzene 0.125 0.159 0.150 0.150 120 120 74.0-125 1.71 20 4-Dichloropenzene 0.125 0.159 0.150 150 150 150 150 150 150 150 150 150	ibromomethane	0.125	0.131	0.129	105	103	75.0-122			1.54	20	
4-Dichlorobenzene 0.125 0.122 0.122 97.6 97.6 97.6 171.0 171.0 170.0 20 171.0 170.0	2-Dichlorobenzene	0.125	0.121	0.121	96.8	96.8	76.0-124			0.000	20	
dichlorodifluoromethane 0.125 0.104 0.106 83.2 84.8 43.0-156 1.90 20 4-Dichloroethane 0.125 0.147 0.154 118 123 70.0-127 4.65 20 2-Dichloroethane 0.125 0.152 0.154 122 127 65.0-131 3.85 20 is-12-Dichloroethane 0.125 0.118 0.118 94.4 94.4 73.0-125 0.000 20 ans-12-Dichloroethane 0.125 0.118 0.118 94.4 94.4 73.0-125 0.000 20 ans-12-Dichloroethane 0.125 0.118 0.118 92.8 94.4 73.0-125 0.000 20 2-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 1.71 20 3-Dichloropropane 0.125 0.131 0.130 155 104 80.0-125 0.766 20 3-Dichloropropane 0.125 0.132 0.135 108 108 <td>3-Dichlorobenzene</td> <td>0.125</td> <td>0.122</td> <td>0.121</td> <td>97.6</td> <td>96.8</td> <td>76.0-125</td> <td></td> <td></td> <td>0.823</td> <td>20</td> <td></td>	3-Dichlorobenzene	0.125	0.122	0.121	97.6	96.8	76.0-125			0.823	20	
Procedure 1.0	4-Dichlorobenzene	0.125	0.122	0.122	97.6	97.6	77.0-121			0.000	20	
22-Dichloroethane 0.125 0.152 0.154 122 123 65.0-131 1.31 20 1-Dichloroethene 0.125 0.153 0.159 122 127 65.0-131 3.85 20 1-Si-2-Dichloroethene 0.125 0.188 0.188 94.4 94.4 73.0-125 0.000 20 1-Dichloropropane 0.125 0.116 0.118 92.8 94.4 71.0-125 1.71 20 1-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 0.000 20 1-Dichloropropane 0.125 0.132 0.134 106 107 73.0-125 1.50 20 3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 3-Dichloropropane 0.125 0.131 0.130 104 12 76.0-127 1.42 20 2-Dichloropropane 0.125 0.132 0.135 108 108 70.0	Dichlorodifluoromethane	0.125	0.104	0.106	83.2	84.8	43.0-156			1.90	20	
4-Dichloroethene 0.125 0.153 0.159 122 127 65.0-131 3.85 20 isi-1.2-Dichloroethene 0.125 0.118 0.118 94.4 94.4 73.0-125 0.000 20 rans-1.2-Dichloroethene 0.125 0.116 0.118 92.8 94.4 71.0-125 17.1 20 2-Dichloropropane 0.125 0.130 0.150 120 120 74.0-125 0.000 20 3-Dichloropropane 0.125 0.132 0.134 106 107 73.0-125 1.50 20 3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 3-Dichloropropane 0.125 0.132 0.140 114 112 76.0-127 142 20 2-Dichloropropane 0.125 0.135 108 108 73.0-127 0.000 20 2-Dichloropropane 0.125 0.130 0.100 128 128 128 <t< td=""><td>,1-Dichloroethane</td><td>0.125</td><td>0.147</td><td>0.154</td><td>118</td><td>123</td><td>70.0-127</td><td></td><td></td><td>4.65</td><td>20</td><td></td></t<>	,1-Dichloroethane	0.125	0.147	0.154	118	123	70.0-127			4.65	20	
is-12-Dichloroethene 0.125 0.118 0.118 94.4 94.4 73.0-125 0.000 20 cans-1,2-Dichloroethene 0.125 0.116 0.118 92.8 94.4 71.0-125 1.71 20 2-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 0.000 20 1-Dichloropropane 0.125 0.132 0.134 106 107 73.0-125 0.766 20 3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 3-15-15-Dichloropropane 0.125 0.142 0.140 114 112 76.0-127 1.42 20 4-15-13-Dichloropropane 0.125 0.135 0.135 108 108 73.0-127 0.000 20 4-2-Dichloropropane 0.125 0.130 100 104 59.0-135 0.02 0.000 20 4-2-Dichloropropane 0.125 0.160 128 128 12	,2-Dichloroethane	0.125	0.152	0.154	122	123	65.0-131			1.31	20	
sis-1,2-Dichloroethene 0.125 0.118 0.118 94.4 94.4 73.0-125 0.000 20 caras-1,2-Dichloroethene 0.125 0.116 0.118 92.8 94.4 71.0-125 1.71 20 caras-1,2-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 0.000 20 d-Dichloropropane 0.125 0.132 0.134 106 107 73.0-125 0.766 20 3.0-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 3.3-Dichloropropane 0.125 0.142 0.140 114 112 76.0-127 1.42 20 4.2-Dichloropropane 0.125 0.135 0.135 108 108 73.0-127 0.000 20 4.2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 0.026 0.000 20 4.2-Dichloropropane 0.125 0.126 0.128	,1-Dichloroethene			0.159	122					3.85	20	
rans-1,2-Dichloroethene 0.125 0.116 0.118 92.8 94.4 71.0-125 1.71 20 ,2-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 0.000 20 ,1-Dichloropropene 0.125 0.132 0.134 106 107 73.0-125 1.50 20 ,3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 ,3-Dichloropropane 0.125 0.142 0.140 114 112 76.0-127 1.42 20 ,2-Dichloropropane 0.125 0.135 0.135 108 108 108 73.0-127 0.000 20 ,2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 3.92 20 ,2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 0.0136 0.000 20 ,2-Dichloropropane 0.125 0.125 0.115	tis-1,2-Dichloroethene		0.118	0.118	94.4	94.4	73.0-125				20	
2-Dichloropropane 0.125 0.150 0.150 120 120 74.0-125 0.000 20 3-Dichloropropene 0.125 0.132 0.134 106 107 73.0-125 1.50 20 3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 is-1,3-Dichloropropene 0.125 0.142 0.140 114 112 76.0-127 1.42 20 crans-1,3-Dichloropropene 0.125 0.135 0.135 108 108 73.0-127 0.000 20 2,2-Dichloropropane 0.125 0.135 0.135 108 108 108 73.0-127 0.000 20 2,2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 0.135 0.000 20 2,2-Dichloropropane 0.125 0.160 128 128 128 60.0136 0.0136 0.000 20 2,2-Dichloropropane 0.125 0.112 <td>rans-1,2-Dichloroethene</td> <td></td> <td></td> <td>0.118</td> <td>92.8</td> <td>94.4</td> <td></td> <td></td> <td></td> <td>1.71</td> <td></td> <td></td>	rans-1,2-Dichloroethene			0.118	92.8	94.4				1.71		
1.1-Dichloropropene0.1250.1320.13410610773.0-1251.5020.3-Dichloropropane0.1250.1310.13010510480.0-1250.76620xis-1,3-Dichloropropene0.1250.1420.14011411276.0-1271.4220xrans-1,3-Dichloropropene0.1250.1350.13510810873.0-1270.000202,2-Dichloropropane0.1250.1250.13010010459.0-1353.92202,2-Dichloropropane0.1250.1600.16012812860.0-1360.000204-tylbenzene0.1250.1120.11589.692.074.0-1262.64204-exachloro-1,3-butadiene0.1250.1100.11288.089.657.0-1501.80204-bospropylbenzene0.1250.1110.11488.891.272.0-1272.67202-butanone (MEK)0.6250.8440.87213514030.0-1603.26244-buthyl-e-pentanone (MIEK)0.6250.8150.11792.093.668.0-1231.72204-buthyl-e-pentanone (MIBK)0.6250.8370.86313413856.0-1433.063.0620												
3-Dichloropropane 0.125 0.131 0.130 105 104 80.0-125 0.766 20 is-1,3-Dichloropropene 0.125 0.142 0.140 114 112 76.0-127 1.42 20 crans-1,3-Dichloropropene 0.125 0.135 0.135 108 108 73.0-127 0.000 20 2,2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 3.92 20 2,2-Dichloropropane 0.125 0.160 128 128 60.0-136 0.000 20 4-Hylbenzene 0.125 0.112 0.115 89.6 92.0 74.0-126 2.64 20 4-Exachloro-1,3-butadiene 0.125 0.110 0.112 88.0 89.6 57.0-150 1.80 2.67 2.0 4-Butanone (MEK) 0.125 0.116 0.128 101 102 72.0-133 1.57 2.0 4-Butanone (MEK) 0.625 0.844 0.872 135 140												
sis-1,3-Dichloropropene 0.125 0.142 0.140 114 112 76.0-127 1.42 20 crans-1,3-Dichloropropene 0.125 0.135 0.135 108 108 73.0-127 0.000 20 2,2-Dichloropropane 0.125 0.125 0.130 100 104 59.0-135 3.92 20 Di-isopropyl ether 0.125 0.160 0.160 128 128 60.0-136 0.000 20 Ethylbenzene 0.125 0.112 0.115 89.6 92.0 74.0-126 2.64 20 dexachloro-1,3-butadiene 0.125 0.110 0.112 88.0 89.6 57.0-150 1.80 20 sopropylbenzene 0.125 0.111 0.114 88.8 91.2 72.0-127 2.67 20 Edutanone (MEK) 0.625 0.844 0.872 135 140 30.0-160 3.26 24 Methyl-2-pentanone (MIBK) 0.625 0.837 0.863 134 138												
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-Methyl-2-pentanone (MIBK) 0.625 0.837 0.863 134 138 56.0-143 3.06 20												
wetnyi tert-butyi etner 0.125 0.120 0.117 96.0 93.6 66.0-132 2.53 20												
	Methyl tert-butyl ether	0.125	0.120	0.117	96.0	93.6	66.0-132			2.53	20	





11/03/23 13:39

(S) 1,2-Dichloroethane-d4

QUALITY CONTROL SUMMARY

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

L1670148-03,05

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

S) D3993516_1	1 10/27/23 07:24	(LCSD) R3993516-2	10/27/23 07:43

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Naphthalene	0.125	0.105	0.110	84.0	88.0	59.0-130			4.65	20	
n-Propylbenzene	0.125	0.146	0.148	117	118	74.0-126			1.36	20	
Styrene	0.125	0.100	0.102	80.0	81.6	72.0-127			1.98	20	
1,1,1,2-Tetrachloroethane	0.125	0.111	0.108	88.8	86.4	74.0-129			2.74	20	
1,1,2,2-Tetrachloroethane	0.125	0.152	0.152	122	122	68.0-128			0.000	20	
1,1,2-Trichlorotrifluoroethane	0.125	0.114	0.117	91.2	93.6	61.0-139			2.60	20	
Tetrachloroethene	0.125	0.107	0.110	85.6	88.0	70.0-136			2.76	20	
Toluene	0.125	0.117	0.119	93.6	95.2	75.0-121			1.69	20	
1,2,3-Trichlorobenzene	0.125	0.105	0.107	84.0	85.6	59.0-139			1.89	20	
1,2,4-Trichlorobenzene	0.125	0.107	0.109	85.6	87.2	62.0-137			1.85	20	
1,1,1-Trichloroethane	0.125	0.132	0.137	106	110	69.0-126			3.72	20	
1,1,2-Trichloroethane	0.125	0.131	0.131	105	105	78.0-123			0.000	20	
Trichloroethene	0.125	0.121	0.121	96.8	96.8	76.0-126			0.000	20	
Trichlorofluoromethane	0.125	0.118	0.129	94.4	103	61.0-142			8.91	20	
1,2,3-Trichloropropane	0.125	0.150	0.149	120	119	67.0-129			0.669	20	
1,2,4-Trimethylbenzene	0.125	0.133	0.133	106	106	70.0-126			0.000	20	
1,2,3-Trimethylbenzene	0.125	0.129	0.129	103	103	74.0-124			0.000	20	
1,3,5-Trimethylbenzene	0.125	0.132	0.133	106	106	73.0-127			0.755	20	
Vinyl chloride	0.125	0.122	0.122	97.6	97.6	63.0-134			0.000	20	
Xylenes, Total	0.375	0.336	0.340	89.6	90.7	72.0-127			1.18	20	
(S) Toluene-d8				98.5	98.3	75.0-131					
(S) 4-Bromofluorobenzene				92.1	93.9	67.0-138					

70.0-130























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L1670148-07,09,11

Method Blank (MR)

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

Method Blank (MB)					
(MB) R3992945-3 10/29/2	23 02:27				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Acetone	U		0.0365	0.0500	
Acrylonitrile	U		0.00361	0.0125	
Benzene	U		0.000467	0.00100	
Bromobenzene	U		0.000900	0.0125	
Bromodichloromethane	U		0.000725	0.00250	
Bromoform	U		0.00117	0.0250	
Bromomethane	U		0.00197	0.0125	
n-Butylbenzene	U		0.00525	0.0125	
sec-Butylbenzene	U		0.00288	0.0125	
tert-Butylbenzene	U		0.00195	0.00500	
Carbon tetrachloride	U		0.000898	0.00500	
Chlorobenzene	U		0.000210	0.00250	
Chlorodibromomethane	U		0.000612	0.00250	
Chloroethane	U		0.00170	0.00500	
Chloroform	U		0.00103	0.00250	
Chloromethane	U		0.00435	0.0125	
2-Chlorotoluene	U		0.000865	0.00250	
4-Chlorotoluene	U		0.000450	0.00500	
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250	
1,2-Dibromoethane	U		0.000648	0.00250	
Dibromomethane	U		0.000750	0.00500	
1,2-Dichlorobenzene	U		0.000425	0.00500	
1,3-Dichlorobenzene	U		0.000600	0.00500	
1,4-Dichlorobenzene	U		0.000700	0.00500	
Dichlorodifluoromethane	U		0.00161	0.00250	
1,1-Dichloroethane	U		0.000491	0.00250	
1,2-Dichloroethane	U		0.000649	0.00250	
1,1-Dichloroethene	U		0.000606	0.00250	
cis-1,2-Dichloroethene	U		0.000734	0.00250	
trans-1,2-Dichloroethene	U		0.00104	0.00500	
1,2-Dichloropropane	U		0.00142	0.00500	
1,1-Dichloropropene	U		0.000809	0.00250	
1,3-Dichloropropane	U		0.000501	0.00500	
cis-1,3-Dichloropropene	U		0.000757	0.00250	
trans-1,3-Dichloropropene	U		0.00114	0.00500	
2,2-Dichloropropane	U		0.00138	0.00250	
Di-isopropyl ether	U		0.000410	0.00100	
Ethylbenzene	U		0.000737	0.00250	
Hexachloro-1,3-butadiene	U		0.00600	0.0250	
Isopropylbenzene	U		0.000425	0.00250	

QUALITY CONTROL SUMMARY

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

L1670148-07,09,11

Method Blank (MB)

(MB) R3992945-3 10/29/2	23 02:27				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	2
p-Isopropyltoluene	0.00263	J	0.00255	0.00500	느
2-Butanone (MEK)	U		0.0635	0.100	3
Methylene Chloride	U		0.00664	0.0250	L
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250	4
Methyl tert-butyl ether	U		0.000350	0.00100	4
Naphthalene	U		0.00488	0.0125	ᆫ
n-Propylbenzene	U		0.000950	0.00500	5
Styrene	U		0.000229	0.0125	L
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250	6
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250	6
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250	_
Tetrachloroethene	U		0.000896	0.00250	7
Toluene	U		0.00130	0.00500	
1,2,3-Trichlorobenzene	U		0.00733	0.0125	8
1,2,4-Trichlorobenzene	U		0.00440	0.0125	
1,1,1-Trichloroethane	U		0.000923	0.00250	_
1,1,2-Trichloroethane	U		0.000597	0.00250	9
Trichloroethene	U		0.000584	0.00100	L
Trichlorofluoromethane	U		0.000827	0.00250	1
1,2,3-Trichloropropane	U		0.00162	0.0125	1
1,2,4-Trimethylbenzene	U		0.00158	0.00500	L
1,2,3-Trimethylbenzene	U		0.00158	0.00500	
1,3,5-Trimethylbenzene	U		0.00200	0.00500	
Vinyl chloride	U		0.00116	0.00250	
Xylenes, Total	U		0.000880	0.00650	
(S) Toluene-d8	105			75.0-131	
(S) 4-Bromofluorobenzene	95.3			67.0-138	
(S) 1,2-Dichloroethane-d4	100			70.0-130	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3992945-1 10/29/23 00:52 • (LCSD) R3992945-2 10/29/23 01:12													
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits			
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%			
Acetone	0.625	0.504	0.752	80.6	120	10.0-160		<u>J3</u>	39.5	31			
Acrylonitrile	0.625	0.598	0.677	95.7	108	45.0-153			12.4	22			
Benzene	0.125	0.137	0.139	110	111	70.0-123			1.45	20			
Bromobenzene	0.125	0.132	0.132	106	106	73.0-121			0.000	20			
Bromodichloromethane	0.125	0.139	0.140	111	112	73.0-121			0.717	20			

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

L1670148-07,09,11

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3992945-1 10/29/2	Spike Amount		LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%	<u> </u>		%	%	
Bromoform	0.125	0.115	0.125	92.0	100	64.0-132			8.33	20	
Bromomethane	0.125	0.161	0.151	129	121	56.0-147			6.41	20	
n-Butylbenzene	0.125	0.139	0.140	111	112	68.0-135			0.717	20	
sec-Butylbenzene	0.125	0.140	0.142	112	114	74.0-130			1.42	20	
tert-Butylbenzene	0.125	0.145	0.145	116	116	75.0-127			0.000	20	
Carbon tetrachloride	0.125	0.141	0.139	113	111	66.0-128			1.43	20	
Chlorobenzene	0.125	0.136	0.142	109	114	76.0-128			4.32	20	
Chlorodibromomethane	0.125	0.133	0.141	106	113	74.0-127			5.84	20	
Chloroethane	0.125	0.152	0.130	122	104	61.0-134			15.6	20	
Chloroform	0.125	0.132	0.133	106	106	72.0-123			0.755	20	
Chloromethane	0.125	0.150	0.153	120	122	51.0-138			1.98	20	
2-Chlorotoluene	0.125	0.139	0.136	111	109	75.0-124			2.18	20	
4-Chlorotoluene	0.125	0.128	0.129	102	103	75.0-124			0.778	20	
1,2-Dibromo-3-Chloropropane	0.125	0.109	0.114	87.2	91.2	59.0-130			4.48	20	
1,2-Dibromoethane	0.125	0.135	0.139	108	111	74.0-128			2.92	20	
Dibromomethane	0.125	0.132	0.138	106	110	75.0-122			4.44	20	
l,2-Dichlorobenzene	0.125	0.125	0.130	100	104	76.0-124			3.92	20	
l,3-Dichlorobenzene	0.125	0.130	0.138	104	110	76.0-125			5.97	20	
1,4-Dichlorobenzene	0.125	0.129	0.135	103	108	77.0-121			4.55	20	
Dichlorodifluoromethane	0.125	0.123	0.124	98.4	99.2	43.0-156			0.810	20	
1,1-Dichloroethane	0.125	0.137	0.138	110	110	70.0-127			0.727	20	
1,2-Dichloroethane	0.125	0.125	0.130	100	104	65.0-131			3.92	20	
1,1-Dichloroethene	0.125	0.141	0.138	113	110	65.0-131			2.15	20	
cis-1,2-Dichloroethene	0.125	0.134	0.137	107	110	73.0-125			2.21	20	
trans-1,2-Dichloroethene	0.125	0.131	0.138	105	110	71.0-125			5.20	20	
1,2-Dichloropropane	0.125	0.138	0.140	110	112	74.0-125			1.44	20	
1,1-Dichloropropene	0.125	0.144	0.140	115	112	73.0-125			2.82	20	
1,3-Dichloropropane	0.125	0.133	0.139	106	111	80.0-125			4.41	20	
cis-1,3-Dichloropropene	0.125	0.140	0.144	112	115	76.0-127			2.82	20	
trans-1,3-Dichloropropene	0.125	0.137	0.138	110	110	73.0-127			0.727	20	
2,2-Dichloropropane	0.125	0.135	0.127	108	102	59.0-135			6.11	20	
Di-isopropyl ether	0.125	0.132	0.135	106	108	60.0-136			2.25	20	
Ethylbenzene	0.125	0.137	0.142	110	114	74.0-126			3.58	20	
Hexachloro-1,3-butadiene	0.125	0.106	0.123	84.8	98.4	57.0-150			14.8	20	
sopropylbenzene	0.125	0.141	0.147	113	118	72.0-127			4.17	20	
p-Isopropyltoluene	0.125	0.120	0.125	96.0	100	72.0-133			4.08	20	
2-Butanone (MEK)	0.625	0.607	0.731	97.1	117	30.0-160			18.5	24	
Methylene Chloride	0.125	0.129	0.127	103	102	68.0-123			1.56	20	
4-Methyl-2-pentanone (MIBK)	0.625	0.708	0.745	113	119	56.0-143			5.09	20	
Methyl tert-butyl ether	0.125	0.116	0.119	92.8	95.2	66.0-132			2.55	20	





















11/03/23 13:39

(S) 1,2-Dichloroethane-d4

QUALITY CONTROL SUMMARY

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

L1670148-07,09,11

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3992945-1 10/29/23 00:52 • (LCSD) R3992945-2 10/29/23 01:12

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Naphthalene	0.125	0.105	0.109	84.0	87.2	59.0-130			3.74	20
n-Propylbenzene	0.125	0.135	0.135	108	108	74.0-126			0.000	20
Styrene	0.125	0.117	0.119	93.6	95.2	72.0-127			1.69	20
1,1,1,2-Tetrachloroethane	0.125	0.142	0.142	114	114	74.0-129			0.000	20
1,1,2,2-Tetrachloroethane	0.125	0.120	0.123	96.0	98.4	68.0-128			2.47	20
1,1,2-Trichlorotrifluoroethane	0.125	0.151	0.145	121	116	61.0-139			4.05	20
Tetrachloroethene	0.125	0.143	0.154	114	123	70.0-136			7.41	20
Toluene	0.125	0.138	0.138	110	110	75.0-121			0.000	20
1,2,3-Trichlorobenzene	0.125	0.106	0.114	84.8	91.2	59.0-139			7.27	20
1,2,4-Trichlorobenzene	0.125	0.102	0.112	81.6	89.6	62.0-137			9.35	20
1,1,1-Trichloroethane	0.125	0.133	0.137	106	110	69.0-126			2.96	20
1,1,2-Trichloroethane	0.125	0.134	0.134	107	107	78.0-123			0.000	20
Trichloroethene	0.125	0.150	0.149	120	119	76.0-126			0.669	20
Trichlorofluoromethane	0.125	0.179	0.162	143	130	61.0-142	<u>J4</u>		9.97	20
1,2,3-Trichloropropane	0.125	0.126	0.126	101	101	67.0-129			0.000	20
1,2,4-Trimethylbenzene	0.125	0.127	0.130	102	104	70.0-126			2.33	20
1,2,3-Trimethylbenzene	0.125	0.123	0.122	98.4	97.6	74.0-124			0.816	20
1,3,5-Trimethylbenzene	0.125	0.132	0.133	106	106	73.0-127			0.755	20
Vinyl chloride	0.125	0.169	0.166	135	133	63.0-134	<u>J4</u>		1.79	20
Xylenes, Total	0.375	0.416	0.407	111	109	72.0-127			2.19	20
(S) Toluene-d8				104	102	75.0-131				
(S) 4-Bromofluorobenzene				95.8	95.8	67.0-138				

70.0-130























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QUALITY CONTROL SUMMARY

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

L1670148-07

Method Blank (MB)

(MB) R3993194-3 10/30/2	3 22:49			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Trichloroethene	U		0.000584	0.00100
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	89.8			70.0-130





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(200) 11000010 1 1 10/00/2	0 2 (2002)	,	.0,00,20 200							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Trichloroethene	0.125	0.150	0.147	120	118	76.0-126			2.02	20
(S) Toluene-d8				109	109	75.0-131				
(S) 4-Bromofluorobenzene				107	103	67.0-138				
(S) 1,2-Dichloroethane-d4				97.8	95.5	70.0-130				













Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

L1670148-03,05,07,09,11

Method Blank (MB)

(MB) R3993745-1 11/01/23 0	00:27			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	58.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3993745-2 11/01/2	3 00:39				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Diesel Range Organics (DRO)	50.0	32.9	65.8	50.0-150	
(S) o-Terphenyl			57.5	18.0-148	





L1670115-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670115-11 11/01/23 00:52 • (MS) R3993745-3 11/01/23 01:04 • (MSD) R3993745-4 11/01/23 01:16

(00) 21070110 11 11/01/20 0	` '	Original Result (dry)	,	•	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Diesel Range Organics (DRO)	57.7	U	32.9	35.8	57.0	62.0	1	50.0-150			8.40	20
(S) o-Terphenyl					43.5	43.5		18.0-148				







QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

L1670148-03,05,07,09,11

Method Blank (MB)

(MB) R3994585-2 11/01	/23 11:12				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	² T
Anthracene	U		0.00230	0.00600	
Acenaphthene	U		0.00209	0.00600	³S
Acenaphthylene	U		0.00216	0.00600	L
Benzo(a)anthracene	U		0.00173	0.00600	4
Benzo(a)pyrene	U		0.00179	0.00600	⁴ C
Benzo(b)fluoranthene	U		0.00153	0.00600	느
Benzo(g,h,i)perylene	U		0.00177	0.00600	⁵ C
Benzo(k)fluoranthene	U		0.00215	0.00600	
Chrysene	U		0.00232	0.00600	6 _
Dibenz(a,h)anthracene	U		0.00172	0.00600	⁶ S
Fluoranthene	U		0.00227	0.00600	
Fluorene	U		0.00205	0.00600	⁷ C
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	
Naphthalene	U		0.00408	0.0200	8
Phenanthrene	U		0.00231	0.00600	⁸ G
Pyrene	U		0.00200	0.00600	
1-Methylnaphthalene	U		0.00449	0.0200	⁹ A
2-Methylnaphthalene	U		0.00427	0.0200	
2-Chloronaphthalene	U		0.00466	0.0200	10
(S) p-Terphenyl-d14	79.9			23.0-120	¹⁰ S
(S) Nitrobenzene-d5	59.2			14.0-149	
(S) 2-Fluorobiphenyl	70.9			34.0-125	

Laboratory Control Sample (LCS)

(LCS) R3994585-1 11/01	/23 10:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Anthracene	0.0800	0.0521	65.1	50.0-126	
Acenaphthene	0.0800	0.0520	65.0	50.0-120	
Acenaphthylene	0.0800	0.0504	63.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0589	73.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0533	66.6	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0557	69.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0526	65.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0531	66.4	49.0-125	
Chrysene	0.0800	0.0594	74.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0544	68.0	47.0-125	
Fluoranthene	0.0800	0.0592	74.0	49.0-129	

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Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

L1670148-03,05,07,09,11

Laboratory Control Sample (LCS)

11 (5)	R3994585-1	11/01/23	10.54

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Fluorene	0.0800	0.0587	73.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0568	71.0	46.0-125	
Naphthalene	0.0800	0.0520	65.0	50.0-120	
Phenanthrene	0.0800	0.0558	69.8	47.0-120	
Pyrene	0.0800	0.0573	71.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0607	75.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0622	77.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0541	67.6	50.0-120	
(S) p-Terphenyl-d14			78.5	23.0-120	
(S) Nitrobenzene-d5			72.8	14.0-149	
(S) 2-Fluorobiphenyl			78.1	34.0-125	

L1670168-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1670168-11 11/01/23 14:44 • (MS) R3994585-3 11/01/23 15:37 • (MSD) R3994585-4 11/01/23 15:55

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Anthracene	0.0989	U	0.0551	0.0573	55.6	57.9	1	10.0-145			4.06	30
Acenaphthene	0.0989	U	0.0528	0.0507	53.3	51.3	1	14.0-127			3.92	27
Acenaphthylene	0.0989	U	0.0530	0.0519	53.6	52.4	1	21.0-124			2.18	25
Benzo(a)anthracene	0.0989	U	0.0594	0.0643	60.0	65.0	1	10.0-139			8.00	30
Benzo(a)pyrene	0.0989	U	0.0595	0.0617	60.1	62.3	1	10.0-141			3.56	31
Benzo(b)fluoranthene	0.0989	U	0.0534	0.0563	54.0	56.9	1	10.0-140			5.32	36
Benzo(g,h,i)perylene	0.0989	U	0.0596	0.0597	60.3	60.4	1	10.0-140			0.213	33
Benzo(k)fluoranthene	0.0989	U	0.0526	0.0552	53.2	55.8	1	10.0-137			4.71	31
Chrysene	0.0989	U	0.0619	0.0657	62.6	66.4	1	10.0-145			5.96	30
Dibenz(a,h)anthracene	0.0989	U	0.0603	0.0599	60.9	60.5	1	10.0-132			0.634	31
Fluoranthene	0.0989	U	0.0554	0.0614	56.0	62.1	1	10.0-153			10.2	33
Fluorene	0.0989	U	0.0632	0.0667	63.8	67.4	1	11.0-130			5.47	29
Indeno(1,2,3-cd)pyrene	0.0989	U	0.0623	0.0617	62.9	62.3	1	10.0-137			1.02	32
Naphthalene	0.0989	U	0.0529	0.0512	53.5	51.8	1	10.0-135			3.17	27
Phenanthrene	0.0989	0.00511	0.0611	0.0610	56.6	56.5	1	10.0-144			0.208	31
Pyrene	0.0989	0.00429	0.0594	0.0595	55.7	55.8	1	10.0-148			0.213	35
1-Methylnaphthalene	0.0989	0.0166	0.0742	0.0679	58.2	51.8	1	10.0-142			8.93	28
2-Methylnaphthalene	0.0989	0.0226	0.0849	0.0761	62.9	54.1	1	10.0-137			10.9	28
2-Chloronaphthalene	0.0989	U	0.0548	0.0587	55.4	59.4	1	29.0-120			6.93	24
(S) p-Terphenyl-d14					61.9	64.8		23.0-120				
(S) Nitrobenzene-d5					59.2	63.6		14.0-149				
(S) 2-Fluorobiphenyl					63.7	73.1		34.0-125				

Ср





















GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Appreviations and	a Definitions
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Des	cription
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В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.























ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto



















PAGE:

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 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Company Name/Address:		10 To 10	Billing Information:						7.7.13	Analysis	/Cant	inas / t	reservative		_	Chain of Custody Page of	
		Accounts Payable 601 SW 2nd Ave., Suite 1400			Pres Chk				Allalvsis		iner/i	reservative			Chain of Custo	Pageof_	
			Portiant	Portland, OR 97204												PEOF	ACC PLE ADVANCING SCIENCE
Report to: Stantec			Email To: I	Email To: kirk.warner@stantec.com													JULIET, TN
Project Description: North North 40 Property		City/State Collected:	Seaside oregan Please Cir					1 5	nl/Syr							Submitting a sample constitutes acknowle Pace Terms and Con	Mount Juliet, TN 37122 via this chain of custody edgment and acceptance of the ditions found at:
Phone: 503-297-1631	Client Proj 1857061			Lab Project # SECORTOR-185706185				4ozClr-NoPres	OH10n	oPres	35		0ml/sy		1	terms.pdf	s.com/hubfs/pas-standard-
Collected by (print): KINK Warre	Site/Facilit	y ID#		P.O. #		-	Pres	lozClr-	b/Me	4ozCir-NoPres	-NoPre		еОН1			F0	16
Immediately Packed on Ice N Y	Rush? (Lab MUST Be Notified) Same Day Five Day Next Day 5 Day (Rad Only) Two Day Three Day		Quote # Date Resu	esults Needed		MRCRA8 8ozcir-Nopres	NWTPHDXNOSGT	NWTPHGX 40mlAmb/MeOH10ml/Syr	SV8270PAHSIM 403	TCLP Metals 8ozClr-NoPres	4ozClr-NoPres	40mlAmb/MeOH10ml/Syr			Acctnum: SECORTOR Template: T240069 Prelogin: P1031414 PM: 546 - Jared Starkey		
Sample ID	Comp/Gra	b Matrix *	Depth	Date	Time	Of Cntrs	ARCRA	WTPH	WTPH	V8270	CLP M	S 4ozC	V8260 4			PB: 10/17/a3 775 Shipped Via:	
NF-6801-7'	6	SS	7'	10/13/23	1/030	13	2	Z	Z	S	F	ř	>			Remarks	Sample # (lab only)
NF-GPOZZ1	6	SS	71	1	1050	13	_									H010	-01
NE-GPO3	C	SS	0-2'		450	3	×	1	1	K	~	X	Y			blot	- 02
NF-GPO4	C	SS	03'		420	13	1	X	1	~	X	X	X				- 03/04
NF-GP-05	C	SS	0-1'		430	13	X	7	1	Y	X	X	X		_		-05/06
NF-50-Pupl 1	G	SS	0-3		425	3	X	1	7	K	X	X	X		-		-07/08
NF-50-M51	C	SS	0-1'	4	440	13	X	X	1	×	X	7	X				-09/10
		SS	1					1	_	×							-11/12
		SS			1												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:									pH _		Temp		COC Sea COC Sig Bottles	al Pre gned/A s arri	ccurate: ve intact:	ecklist NP Y N Y N Y N Y N
DW - Drinking Water OT - Other	Samples returne UPS FedE			Tracki	ng#	1	661	13	43	11	48	398	2	Suffici	ient v	les used: clume sent: If Applicab	Te N
Relinquished by : (Signature)		Date:	Time:	Receiv	red by: (Signati		-		-	rip Blank		ed: Ke	No HCL (MeoH)	Preserv	vation	dspace: Correct/Che 0.5 mR/hr:	ecked: Y N
Relinquished by : (Signature)	0	Date:	Time:	Receiv	ed by: (Signati	ure)			1000	6+0		Bottl	es Received:	If preserv	vation	required by Log	in: Date/Time
Relinquished by : (Signature) Date:			Time:	Receiv	red for lab by:	(Signatu	ire)	1	7 0	ate: 0-75		Time	900	Hold:			Condition: NCF / OK



Pace Analytical® ANALYTICAL REPORT

November 03, 2023

Stantec Consulting - Portland, OR

L1670158 Sample Delivery Group:

Samples Received: 10/25/2023

Project Number: 185706185

Description: North North 40 Property

Report To: Stantec

601 SW 2nd Ave., Suite 1400

Portland, OR 97204





















Entire Report Reviewed By:

Jared Starkey

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Stantec Consulting - Portland, OR

185706185

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SAMPLE SUMMARY

	o, == .					
NE CW 01 11670150 01 CW			Collected by Kirk L Warner	Collected date/time 10/23/23 12:50	Received da 10/25/23 09:	
NF-GW 01 L1670158-01 GW						
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Mercury by Method 7470A	WG2159702	1	10/28/23 12:09	10/30/23 10:44	NDL	Mt. Juliet, TN
Mercury by Method 7470A	WG2159706	1	10/28/23 12:31	10/30/23 23:35	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158848	1	10/30/23 10:41	10/31/23 11:14	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158880	1	10/30/23 09:40	10/30/23 20:15	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161133	1	10/31/23 22:39	10/31/23 22:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2160054	1	10/29/23 11:13	10/29/23 11:13	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161004	1	10/31/23 16:05	11/01/23 10:09	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2158210	1	10/26/23 13:33	10/27/23 02:25	DSH	Mt. Juliet, TN
			Collected by	Collected date/time		
NF-GW 02 L1670158-02 GW			Kirk L Warner	10/23/23 13:40	10/25/23 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Mercury by Method 7470A	WG2159706	1	10/28/23 12:31	10/30/23 23:30	NDL	Mt. Juliet, TN
Mercury by Method 7470A	WG2160237	1	10/29/23 13:19	10/30/23 19:19	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158848	1	10/30/23 10:41	10/31/23 10:46	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158880	1	10/30/23 09:40	10/30/23 20:18	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161783	1	11/01/23 18:52	11/01/23 18:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2160054	1	10/29/23 11:34	10/29/23 11:34	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2161004	1	10/31/23 16:05	11/01/23 10:49	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2158210	1	10/26/23 13:33	10/27/23 02:42	DSH	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-GW DUPL. L1670158-03 GW			Kirk L Warner	10/23/23 13:15	10/25/23 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Mercury by Method 7470A	WG2159706	1	10/28/23 12:31	10/30/23 23:37	NDL	Mt. Juliet, TN
Mercury by Method 7470A	WG2159708	1	10/29/23 11:34	10/30/23 20:18	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158848	1	10/30/23 10:41	10/31/23 11:17	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2158880	1	10/30/23 09:40	10/30/23 20:21	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2161783	1	11/01/23 19:17	11/01/23 19:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2160054	1	10/29/23 11:54	10/29/23 11:54	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT						
	WG2161004	1	10/31/23 16:05	11/01/23 11:29	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2161004 WG2158210	1 1	10/31/23 16:05 10/26/23 13:33		MAA DSH	
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM				11/01/23 11:29		Mt. Juliet, TN Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM NF-GW MS1 L1670158-04 GW			10/26/23 13:33	11/01/23 11:29 10/27/23 03:00	DSH	Mt. Juliet, TN Mt. Juliet, TN te/time
			10/26/23 13:33 Collected by	11/01/23 11:29 10/27/23 03:00 Collected date/time	DSH Received da	Mt. Juliet, TN Mt. Juliet, TN te/time
NF-GW MS1 L1670158-04 GW	WG2158210	1	10/26/23 13:33 Collected by Kirk L Warner Preparation	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis	DSH Received da 10/25/23 09:	Mt. Juliet, TN Mt. Juliet, TN te/time
NF-GW MS1 L1670158-04 GW Method Mercury by Method 7470A	WG2158210 Batch WG2159706	Dilution	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39	DSH Received da 10/25/23 09: Analyst NDL	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN
NF-GW MS1 L1670158-04 GW Method Mercury by Method 7470A Mercury by Method 7470A	WG2158210 Batch WG2159706 WG2160641	Dilution	Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30	DSH Received da 10/25/23 09: Analyst NDL LAS	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN Mt. Juliet, TN
NF-GW MS1 L1670158-04 GW Method Mercury by Method 7470A Mercury by Method 7470A Metals (ICP) by Method 6010D	WG2158210 Batch WG2159706 WG2160641 WG2158848	Dilution 1 1 1	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39 10/30/23 10:41	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30 10/31/23 11:20	DSH Received da 10/25/23 09: Analyst NDL LAS JTM	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
NF-GW MS1 L1670158-04 GW Method Mercury by Method 7470A Mercury by Method 7470A Metals (ICP) by Method 6010D Metals (ICP) by Method 6010D	WG2158210 Batch WG2159706 WG2160641 WG2158848 WG2158880	Dilution 1 1 1 1	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39 10/30/23 10:41 10/30/23 09:44	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30 10/31/23 11:20 10/30/23 20:29	DSH Received da 10/25/23 09: Analyst NDL LAS JTM DJS	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method Mercury by Method 7470A Mercury by Method 7470A Mercury by Method 7470A Metals (ICP) by Method 6010D Metals (ICP) by Method 6010D Volatile Organic Compounds (GC) by Method NWTPHGX	WG2158210 Batch WG2159706 WG2160641 WG2158848 WG2158880 WG2161783	Dilution 1 1 1 1 1 1	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39 10/30/23 10:41 10/30/23 09:44 11/01/23 19:41	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30 10/31/23 11:20 10/30/23 20:29 11/01/23 19:41	DSH Received da 10/25/23 09: Analyst NDL LAS JTM DJS ACG	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN
Method Mercury by Method 7470A Mercury by Method 7470A Mercury by Method 7470A Metals (ICP) by Method 6010D Metals (ICP) by Method 6010D Volatile Organic Compounds (GC) by Method NWTPHGX Volatile Organic Compounds (GC/MS) by Method 8260D	WG2158210 Batch WG2159706 WG2160641 WG2158848 WG2161783 WG2160054	Dilution 1 1 1 1 1 1 1	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39 10/30/23 10:41 10/30/23 09:44 11/01/23 19:41 10/29/23 12:14	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30 10/31/23 11:20 10/30/23 20:29 11/01/23 19:41 10/29/23 12:14	Received da 10/25/23 09: Analyst NDL LAS JTM DJS ACG JCP	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN
Method Mercury by Method 7470A Mercury by Method 7470A Mercury by Method 7470A Metals (ICP) by Method 6010D Metals (ICP) by Method 6010D Volatile Organic Compounds (GC) by Method NWTPHGX	WG2158210 Batch WG2159706 WG2160641 WG2158848 WG2158880 WG2161783	Dilution 1 1 1 1 1 1	10/26/23 13:33 Collected by Kirk L Warner Preparation date/time 10/28/23 12:31 10/30/23 14:39 10/30/23 10:41 10/30/23 09:44 11/01/23 19:41	11/01/23 11:29 10/27/23 03:00 Collected date/time 10/23/23 13:00 Analysis date/time 10/30/23 23:39 10/31/23 10:30 10/31/23 11:20 10/30/23 20:29 11/01/23 19:41	DSH Received da 10/25/23 09: Analyst NDL LAS JTM DJS ACG	Mt. Juliet, TN Mt. Juliet, TN te/time 00 Location Mt. Juliet, TN























CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

























Jared Starkey Project Manager

Mercury by Method 7470A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch Lab Sample ID **Analytes** WG2160641 (MS) R3993356-3, (MSD) R3993356-4 Mercury

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

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2160054	L1670158-01	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene, trans-1,4-Dichloro-2-butene and Vinyl acetate
WG2160054	L1670158-02	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene, trans-1,4-Dichloro-2-butene and Vinyl acetate
WG2160054	L1670158-03	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene, trans-1,4-Dichloro-2-butene and Vinyl acetate
WG2160054	L1670158-04	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Naphthalene, trans-1,4-Dichloro-2-butene and Vinyl acetate

DETECTION SUMMARY

Metals (ICP) by Method 6010D

			Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Client ID	Lab Sample ID	Analyte	ug/l		ug/l	ug/l		date / time	
NF-GW 01	L1670158-01	Barium	28.2		0.736	5.00	1	10/30/2023 20:15	WG2158880
NF-GW 01	L1670158-01	Barium, Dissolved	4.91	<u>J</u>	0.736	5.00	1	10/31/2023 11:14	WG2158848
NF-GW 01	L1670158-01	Chromium	9.45	<u>J</u>	1.40	10.0	1	10/30/2023 20:15	WG2158880
NF-GW 01	L1670158-01	Selenium	22.8		7.35	10.0	1	10/30/2023 20:15	WG2158880
NF-GW 02	L1670158-02	Barium	11.6		0.736	5.00	1	10/30/2023 20:18	WG2158880
NF-GW 02	L1670158-02	Barium, Dissolved	9.55		0.736	5.00	1	10/31/2023 10:46	WG2158848
NF-GW 02	L1670158-02	Chromium	3.82	<u>J</u>	1.40	10.0	1	10/30/2023 20:18	WG2158880
NF-GW 02	L1670158-02	Chromium, Dissolved	3.32	<u>J</u>	1.40	10.0	1	10/31/2023 10:46	WG2158848
NF-GW 02	L1670158-02	Selenium	18.2		7.35	10.0	1	10/30/2023 20:18	WG2158880
NF-GW DUPL.	L1670158-03	Barium	22.8		0.736	5.00	1	10/30/2023 20:21	WG2158880
NF-GW DUPL.	L1670158-03	Barium, Dissolved	1.25	<u>J</u>	0.736	5.00	1	10/31/2023 11:17	WG2158848
NF-GW DUPL.	L1670158-03	Chromium	4.27	<u>J</u>	1.40	10.0	1	10/30/2023 20:21	WG2158880
NF-GW MS1	L1670158-04	Barium	9.46		0.736	5.00	1	10/30/2023 20:29	WG2158880
NF-GW MS1	L1670158-04	Barium, Dissolved	9.56		0.736	5.00	1	10/31/2023 11:20	WG2158848
NF-GW MS1	L1670158-04	Chromium, Dissolved	3.80	<u>J</u>	1.40	10.0	1	10/31/2023 11:20	WG2158848



Ср











Volatile Organic Compounds (GC) by Method NWTPHGX

			Result	Qualifier	MDL	RDL	Dilution	•	Batch
Client ID	Lab Sample ID	Analyte	ug/l		ug/l	ug/l		date / time	L
NF-GW 02	<u>L1670158-02</u>	Gasoline Range Organics-NWTPH	38.8	<u>J</u>	31.6	100	1	11/01/2023 18:52	WG2161783

ΆΙ

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

			Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Client ID	Lab Sample ID	Analyte	ug/l		ug/l	ug/l		date / time	
NF-GW 01	L1670158-01	Ethylbenzene	0.690		0.137	0.500	1	10/29/2023 11:13	WG2160054
NF-GW 01	L1670158-01	Naphthalene	1.76	<u>C3 J</u>	0.174	2.50	1	10/29/2023 11:13	WG2160054
NF-GW 01	L1670158-01	n-Propylbenzene	0.227	<u>J</u>	0.0993	0.500	1	10/29/2023 11:13	WG2160054
NF-GW 01	L1670158-01	1,2,4-Trimethylbenzene	0.334	<u>J</u>	0.322	0.500	1	10/29/2023 11:13	WG2160054
NF-GW 01	L1670158-01	Xylenes, Total	0.904	J	0.174	1.50	1	10/29/2023 11:13	WG2160054

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

			Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Client ID	Lab Sample ID	Analyte	ug/l		ug/l	ug/l		date / time	
NF-GW 01	L1670158-01	Residual Range Organics (RRO)	147	<u>J</u>	83.3	250	1	11/01/2023 10:09	WG2161004
NF-GW DUPL.	L1670158-03	Residual Range Organics (RRO)	146	<u>J</u>	83.3	250	1	11/01/2023 11:29	WG2161004

NF-GW 01

SAMPLE RESULTS - 01

Collected date/time: 10/23/23 12:50

Mercury by Method 7470A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	10/30/2023 10:44	WG2159702
Mercury, Dissolved	U		0.100	0.200	1	10/30/2023 23:35	WG2159706



Ss

Metals (ICP) by Method 6010D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	10/30/2023 20:15	WG2158880
Arsenic, Dissolved	U		4.40	10.0	1	10/31/2023 11:14	WG2158848
Barium	28.2		0.736	5.00	1	10/30/2023 20:15	WG2158880
Barium, Dissolved	4.91	<u>J</u>	0.736	5.00	1	10/31/2023 11:14	WG2158848
Cadmium	U		0.479	2.00	1	10/30/2023 20:15	WG2158880
Cadmium, Dissolved	U		0.479	2.00	1	10/31/2023 11:14	WG2158848
Chromium	9.45	<u>J</u>	1.40	10.0	1	10/30/2023 20:15	WG2158880
Chromium, Dissolved	U		1.40	10.0	1	10/31/2023 11:14	WG2158848
Lead	U		2.99	6.00	1	10/30/2023 20:15	WG2158880
Lead, Dissolved	U		2.99	6.00	1	10/31/2023 11:14	WG2158848
Selenium	22.8		7.35	10.0	1	10/30/2023 20:15	WG2158880
Selenium, Dissolved	U		7.35	10.0	1	10/31/2023 11:14	WG2158848
Silver	U		1.54	5.00	1	10/30/2023 20:15	WG2158880
Silver.Dissolved	U		1.54	5.00	1	10/31/2023 11:14	WG2158848













¹⁰Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	10/31/2023 22:39	WG2161133
(S) a,a,a-Trifluorotoluene(FID)	92.2			78.0-120		10/31/2023 22:39	<u>WG2161133</u>

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	10/29/2023 11:13	WG2160054
Acrylonitrile	U		0.671	5.00	1	10/29/2023 11:13	WG2160054
Benzene	U		0.0941	0.500	1	10/29/2023 11:13	WG2160054
Bromobenzene	U		0.118	0.500	1	10/29/2023 11:13	WG2160054
Bromodichloromethane	U		0.136	0.500	1	10/29/2023 11:13	WG2160054
Bromochloromethane	U		0.128	0.500	1	10/29/2023 11:13	WG2160054
Bromoform	U		0.129	0.500	1	10/29/2023 11:13	WG2160054
Bromomethane	U		0.605	2.50	1	10/29/2023 11:13	WG2160054
n-Butylbenzene	U		0.157	0.500	1	10/29/2023 11:13	WG2160054
sec-Butylbenzene	U		0.125	0.500	1	10/29/2023 11:13	WG2160054
tert-Butylbenzene	U		0.127	0.500	1	10/29/2023 11:13	WG2160054
Carbon disulfide	U		0.0962	0.500	1	10/29/2023 11:13	WG2160054
Carbon tetrachloride	U		0.128	0.500	1	10/29/2023 11:13	WG2160054
Chlorobenzene	U		0.117	0.500	1	10/29/2023 11:13	WG2160054
Chlorodibromomethane	U		0.140	0.500	1	10/29/2023 11:13	WG2160054
Chloroethane	U		0.192	2.50	1	10/29/2023 11:13	WG2160054
2-Chloroethyl vinyl ether	U		0.575	50.0	1	10/29/2023 11:13	WG2160054
Chloroform	U		0.111	0.500	1	10/29/2023 11:13	WG2160054
Chloromethane	U		0.960	1.25	1	10/29/2023 11:13	WG2160054
2-Chlorotoluene	U		0.106	0.500	1	10/29/2023 11:13	WG2160054
4-Chlorotoluene	U		0.114	0.500	1	10/29/2023 11:13	WG2160054
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	10/29/2023 11:13	WG2160054
1,2-Dibromoethane	U		0.126	0.500	1	10/29/2023 11:13	WG2160054

Collected date/time: 10/23/23 12:50

SAMPLE RESULTS - 01

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.122	0.500	1	10/29/2023 11:13	WG2160054
1,2-Dichlorobenzene	U		0.107	0.500	1	10/29/2023 11:13	WG2160054
1,3-Dichlorobenzene	U		0.299	0.500	1	10/29/2023 11:13	WG2160054
1,4-Dichlorobenzene	U		0.120	0.500	1	10/29/2023 11:13	WG2160054
Dichlorodifluoromethane	U		0.374	2.50	1	10/29/2023 11:13	WG2160054
1,1-Dichloroethane	U		0.100	0.500	1	10/29/2023 11:13	WG2160054
1,2-Dichloroethane	U		0.0819	0.500	1	10/29/2023 11:13	WG2160054
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2023 11:13	WG2160054
cis-1,2-Dichloroethene	U		0.126	0.500	1	10/29/2023 11:13	WG2160054
trans-1,2-Dichloroethene	U		0.149	0.500	1	10/29/2023 11:13	WG2160054
1,2-Dichloropropane	U		0.149	0.500	1	10/29/2023 11:13	WG2160054
1,1-Dichloropropene	U		0.142	0.500	1	10/29/2023 11:13	WG2160054
1,3-Dichloropropane	U		0.109	1.00	1	10/29/2023 11:13	WG2160054
cis-1,3-Dichloropropene	U		0.111	0.500	1	10/29/2023 11:13	WG2160054
trans-1,3-Dichloropropene	U		0.118	0.500	1	10/29/2023 11:13	WG2160054
trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.467	5.00	1	10/29/2023 11:13	WG2160054
2,2-Dichloropropane	U		0.161	0.500	1	10/29/2023 11:13	WG2160054
Di-isopropyl ether	U		0.105	0.500	1	10/29/2023 11:13	WG2160054
Ethylbenzene	0.690		0.137	0.500	1	10/29/2023 11:13	WG2160054
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2023 11:13	WG2160054
2-Hexanone	U		0.787	5.00	1	10/29/2023 11:13	WG2160054
n-Hexane	U		0.749	5.00	1	10/29/2023 11:13	WG2160054
lodomethane	U		0.554	5.00	1	10/29/2023 11:13	WG2160054
Isopropylbenzene	U		0.105	0.500	1	10/29/2023 11:13	WG2160054
p-Isopropyltoluene	U		0.120	0.500	1	10/29/2023 11:13	WG2160054
2-Butanone (MEK)	U		1.19	5.00	1	10/29/2023 11:13	WG2160054
Methylene Chloride	U		0.430	2.50	1	10/29/2023 11:13	WG2160054
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	10/29/2023 11:13	WG2160054
Methyl tert-butyl ether	U		0.101	0.500	1	10/29/2023 11:13	WG2160054
Naphthalene	1.76	<u>C3 J</u>	0.174	2.50	1	10/29/2023 11:13	WG2160054
n-Propylbenzene	0.227	<u>J</u>	0.0993	0.500	1	10/29/2023 11:13	WG2160054
Styrene	U		0.118	0.500	1	10/29/2023 11:13	WG2160054
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	10/29/2023 11:13	WG2160054
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	10/29/2023 11:13	WG2160054
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	10/29/2023 11:13	WG2160054
Tetrachloroethene	U		0.300	0.500	1	10/29/2023 11:13	WG2160054
Toluene	U		0.278	0.500	1	10/29/2023 11:13	WG2160054
1,2,3-Trichlorobenzene	U	<u>C3</u>	0.164	0.500	1	10/29/2023 11:13	WG2160054
1,2,4-Trichlorobenzene	U	<u>C3</u>	0.481	1.00	1	10/29/2023 11:13	WG2160054
1,1,1-Trichloroethane	U		0.149	0.500	1	10/29/2023 11:13	WG2160054
1,1,2-Trichloroethane	U		0.158	0.500	1	10/29/2023 11:13	WG2160054
Trichloroethene	U		0.190	0.500	1	10/29/2023 11:13	WG2160054
Trichlorofluoromethane	U		0.160	2.50	1	10/29/2023 11:13	WG2160054
1,2,3-Trichloropropane	U		0.237	2.50	1	10/29/2023 11:13	WG2160054
1,2,4-Trimethylbenzene	0.334	<u>J</u>	0.322	0.500	1	10/29/2023 11:13	WG2160054
1,2,3-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 11:13	WG2160054
1,3,5-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 11:13	WG2160054
Vinyl acetate	U	<u>C3</u>	0.692	5.00	1	10/29/2023 11:13	WG2160054
Vinyl chloride	U		0.234	0.500	1	10/29/2023 11:13	WG2160054
Xylenes, Total	0.904	<u>J</u>	0.174	1.50	1	10/29/2023 11:13	WG2160054
(S) Toluene-d8	105			80.0-120		10/29/2023 11:13	WG2160054
	99.4			77.0-126		10/29/2023 11:13	WG2160054
(S) 4-Bromofluorobenzene							

(S) p-Terphenyl-d14

80.0

SAMPLE RESULTS - 01

Collected date/time: 10/23/23 12:50

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Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

		`	, ,				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	11/01/2023 10:09	WG2161004
Residual Range Organics (RRO)	147	<u>J</u>	83.3	250	1	11/01/2023 10:09	WG2161004
(S) o-Terphenyl	97.4			52.0-156		11/01/2023 10:09	WG2161004







Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
ug/l		ug/l	ug/l		date / time	
U		0.0190	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0190	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0171	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0203	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0184	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0168	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0184	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0202	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0179	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0160	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0270	0.100	1	10/27/2023 02:25	WG2158210
U		0.0169	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0158	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0917	0.250	1	10/27/2023 02:25	WG2158210
U		0.0180	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0169	0.0500	1	10/27/2023 02:25	WG2158210
U		0.0687	0.250	1	10/27/2023 02:25	WG2158210
U		0.0674	0.250	1	10/27/2023 02:25	WG2158210
U		0.0682	0.250	1	10/27/2023 02:25	WG2158210
89.5			31.0-160		10/27/2023 02:25	WG2158210
97.4			48.0-148		10/27/2023 02:25	WG2158210
	Ug/I U U U U U U U U U U U U U U U U U U U	Ug/l U U U U U U U U U U U U U U U U U U U	ug/l ug/l U 0.0190 U 0.0190 U 0.0171 U 0.0203 U 0.0184 U 0.0168 U 0.0184 U 0.0202 U 0.0179 U 0.0160 U 0.0160 U 0.0169 U 0.0158 U 0.0180 U 0.0169 U 0.0687 U 0.0682 89.5	ug/l ug/l ug/l U 0.0190 0.0500 U 0.0190 0.0500 U 0.0171 0.0500 U 0.0203 0.0500 U 0.0184 0.0500 U 0.0168 0.0500 U 0.0184 0.0500 U 0.0179 0.0500 U 0.0179 0.0500 U 0.0160 0.0500 U 0.0160 0.0500 U 0.0158 0.0500 U 0.0158 0.0500 U 0.0180 0.0500 U 0.0169 0.0500 U 0.0169 0.0500 U 0.0687 0.250 U 0.0687 0.250 U 0.0682 0.250 89.5 31.0-160	ug/l ug/l ug/l U 0.0190 0.0500 1 U 0.0190 0.0500 1 U 0.0171 0.0500 1 U 0.0203 0.0500 1 U 0.0184 0.0500 1 U 0.0168 0.0500 1 U 0.0184 0.0500 1 U 0.0202 0.0500 1 U 0.0179 0.0500 1 U 0.0160 0.0500 1 U 0.0270 0.100 1 U 0.0169 0.0500 1 U 0.0158 0.0500 1 U 0.0917 0.250 1 U 0.0180 0.0500 1 U 0.0169 0.0500 1 U 0.0687 0.250 1 U 0.0687 0.250 1 U 0.0682 0.250 <td>ug/l ug/l date / time U 0.0190 0.0500 1 10/27/2023 02:25 U 0.0190 0.0500 1 10/27/2023 02:25 U 0.0171 0.0500 1 10/27/2023 02:25 U 0.0203 0.0500 1 10/27/2023 02:25 U 0.0184 0.0500 1 10/27/2023 02:25 U 0.0202 0.0500 1 10/27/2023 02:25 U 0.0179 0.0500 1 10/27/2023 02:25 U 0.0160 0.0500 1 10/27/2023 02:25 U 0.0270 0.100 1 10/27/2023 02:25 U 0.0169 0.0500 1 10/27/2023 02:25 U 0.0158 0.0500 1 10/27/2023 02:25 <tr< td=""></tr<></td>	ug/l ug/l date / time U 0.0190 0.0500 1 10/27/2023 02:25 U 0.0190 0.0500 1 10/27/2023 02:25 U 0.0171 0.0500 1 10/27/2023 02:25 U 0.0203 0.0500 1 10/27/2023 02:25 U 0.0184 0.0500 1 10/27/2023 02:25 U 0.0202 0.0500 1 10/27/2023 02:25 U 0.0179 0.0500 1 10/27/2023 02:25 U 0.0160 0.0500 1 10/27/2023 02:25 U 0.0270 0.100 1 10/27/2023 02:25 U 0.0169 0.0500 1 10/27/2023 02:25 U 0.0158 0.0500 1 10/27/2023 02:25 <tr< td=""></tr<>

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WG2158210

10/27/2023 02:25

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SAMPLE RESULTS - 02

Collected date/time: 10/23/23 13:40

Mercury by Method 7470A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	10/30/2023 19:19	WG2160237
Mercury, Dissolved	U		0.100	0.200	1	10/30/2023 23:30	WG2159706

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	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	10/30/2023 20:18	WG2158880
Arsenic, Dissolved	U		4.40	10.0	1	10/31/2023 10:46	WG2158848
Barium	11.6		0.736	5.00	1	10/30/2023 20:18	WG2158880
Barium, Dissolved	9.55		0.736	5.00	1	10/31/2023 10:46	WG2158848
Cadmium	U		0.479	2.00	1	10/30/2023 20:18	WG2158880
Cadmium, Dissolved	U		0.479	2.00	1	10/31/2023 10:46	WG2158848
Chromium	3.82	<u>J</u>	1.40	10.0	1	10/30/2023 20:18	WG2158880
Chromium, Dissolved	3.32	<u>J</u>	1.40	10.0	1	10/31/2023 10:46	WG2158848
Lead	U		2.99	6.00	1	10/30/2023 20:18	WG2158880
Lead, Dissolved	U		2.99	6.00	1	10/31/2023 10:46	WG2158848
Selenium	18.2		7.35	10.0	1	10/30/2023 20:18	WG2158880
Selenium, Dissolved	U		7.35	10.0	1	10/31/2023 10:46	WG2158848
Silver	U		1.54	5.00	1	10/30/2023 20:18	WG2158880
Silver.Dissolved	U		1.54	5.00	1	10/31/2023 10:46	WG2158848













Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	38.8	<u>J</u>	31.6	100	1	11/01/2023 18:52	WG2161783
(S) a,a,a-Trifluorotoluene(FID)	93.2			78.0-120		11/01/2023 18:52	WG2161783

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	10/29/2023 11:34	WG2160054
Acrylonitrile	U		0.671	5.00	1	10/29/2023 11:34	WG2160054
Benzene	U		0.0941	0.500	1	10/29/2023 11:34	WG2160054
Bromobenzene	U		0.118	0.500	1	10/29/2023 11:34	WG2160054
Bromodichloromethane	U		0.136	0.500	1	10/29/2023 11:34	WG2160054
Bromochloromethane	U		0.128	0.500	1	10/29/2023 11:34	WG2160054
Bromoform	U		0.129	0.500	1	10/29/2023 11:34	WG2160054
Bromomethane	U		0.605	2.50	1	10/29/2023 11:34	WG2160054
n-Butylbenzene	U		0.157	0.500	1	10/29/2023 11:34	WG2160054
sec-Butylbenzene	U		0.125	0.500	1	10/29/2023 11:34	WG2160054
tert-Butylbenzene	U		0.127	0.500	1	10/29/2023 11:34	WG2160054
Carbon disulfide	U		0.0962	0.500	1	10/29/2023 11:34	WG2160054
Carbon tetrachloride	U		0.128	0.500	1	10/29/2023 11:34	WG2160054
Chlorobenzene	U		0.117	0.500	1	10/29/2023 11:34	WG2160054
Chlorodibromomethane	U		0.140	0.500	1	10/29/2023 11:34	WG2160054
Chloroethane	U		0.192	2.50	1	10/29/2023 11:34	WG2160054
2-Chloroethyl vinyl ether	U		0.575	50.0	1	10/29/2023 11:34	WG2160054
Chloroform	U		0.111	0.500	1	10/29/2023 11:34	WG2160054
Chloromethane	U		0.960	1.25	1	10/29/2023 11:34	WG2160054
2-Chlorotoluene	U		0.106	0.500	1	10/29/2023 11:34	WG2160054
4-Chlorotoluene	U		0.114	0.500	1	10/29/2023 11:34	WG2160054
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	10/29/2023 11:34	WG2160054
1,2-Dibromoethane	U		0.126	0.500	1	10/29/2023 11:34	WG2160054

Collected date/time: 10/23/23 13:40

SAMPLE RESULTS - 02

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.122	0.500	1	10/29/2023 11:34	WG2160054
1,2-Dichlorobenzene	U		0.107	0.500	1	10/29/2023 11:34	WG2160054
1,3-Dichlorobenzene	U		0.299	0.500	1	10/29/2023 11:34	WG2160054
1,4-Dichlorobenzene	U		0.120	0.500	1	10/29/2023 11:34	WG2160054
Dichlorodifluoromethane	U		0.374	2.50	1	10/29/2023 11:34	WG2160054
1,1-Dichloroethane	U		0.100	0.500	1	10/29/2023 11:34	WG2160054
1,2-Dichloroethane	U		0.0819	0.500	1	10/29/2023 11:34	WG2160054
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2023 11:34	WG2160054
cis-1,2-Dichloroethene	U		0.126	0.500	1	10/29/2023 11:34	WG2160054
trans-1,2-Dichloroethene	U		0.149	0.500	1	10/29/2023 11:34	WG2160054
1,2-Dichloropropane	U		0.149	0.500	1	10/29/2023 11:34	WG2160054
1,1-Dichloropropene	U		0.142	0.500	1	10/29/2023 11:34	WG2160054
1,3-Dichloropropane	U		0.109	1.00	1	10/29/2023 11:34	WG2160054
cis-1,3-Dichloropropene	U		0.111	0.500	1	10/29/2023 11:34	WG2160054
trans-1,3-Dichloropropene	U		0.118	0.500	1	10/29/2023 11:34	WG2160054
trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.467	5.00	1	10/29/2023 11:34	WG2160054
2,2-Dichloropropane	U		0.161	0.500	1	10/29/2023 11:34	WG2160054
Di-isopropyl ether	U		0.105	0.500	1	10/29/2023 11:34	WG2160054
Ethylbenzene	U		0.137	0.500	1	10/29/2023 11:34	WG2160054
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2023 11:34	WG2160054
2-Hexanone	U		0.787	5.00	1	10/29/2023 11:34	WG2160054
n-Hexane	U		0.749	5.00	1	10/29/2023 11:34	WG2160054
lodomethane	U		0.554	5.00	1	10/29/2023 11:34	WG2160054
Isopropylbenzene	U		0.105	0.500	1	10/29/2023 11:34	WG2160054
p-Isopropyltoluene	U		0.120	0.500	1	10/29/2023 11:34	WG2160054
2-Butanone (MEK)	U		1.19	5.00	1	10/29/2023 11:34	WG2160054
Methylene Chloride	U		0.430	2.50	1	10/29/2023 11:34	WG2160054
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	10/29/2023 11:34	WG2160054
Methyl tert-butyl ether	U		0.101	0.500	1	10/29/2023 11:34	WG2160054
Naphthalene	U	<u>C3</u>	0.174	2.50	1	10/29/2023 11:34	WG2160054
n-Propylbenzene	U		0.0993	0.500	1	10/29/2023 11:34	WG2160054
Styrene	U		0.118	0.500	1	10/29/2023 11:34	WG2160054
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	10/29/2023 11:34	WG2160054
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	10/29/2023 11:34	WG2160054
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	10/29/2023 11:34	WG2160054
Tetrachloroethene	U		0.300	0.500	1	10/29/2023 11:34	WG2160054
Toluene	U		0.278	0.500	1	10/29/2023 11:34	WG2160054
1,2,3-Trichlorobenzene	U	<u>C3</u>	0.164	0.500	1	10/29/2023 11:34	WG2160054
1,2,4-Trichlorobenzene	U	<u>C3</u>	0.481	1.00	1	10/29/2023 11:34	WG2160054
1,1,1-Trichloroethane	U		0.149	0.500	1	10/29/2023 11:34	WG2160054
1,1,2-Trichloroethane	U		0.158	0.500	1	10/29/2023 11:34	WG2160054
Trichloroethene	U		0.190	0.500	1	10/29/2023 11:34	WG2160054
Trichlorofluoromethane	U		0.160	2.50	1	10/29/2023 11:34	WG2160054
1,2,3-Trichloropropane	U		0.237	2.50	1	10/29/2023 11:34	WG2160054
1,2,4-Trimethylbenzene	U		0.322	0.500	1	10/29/2023 11:34	WG2160054
1,2,3-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 11:34	WG2160054
1,3,5-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 11:34	WG2160054
Vinyl acetate	U	<u>C3</u>	0.692	5.00	1	10/29/2023 11:34	WG2160054
Vinyl chloride	U		0.234	0.500	1	10/29/2023 11:34	WG2160054
Xylenes, Total	U		0.174	1.50	1	10/29/2023 11:34	WG2160054
(S) Toluene-d8	104			80.0-120		10/29/2023 11:34	WG2160054
						10/29/2023 11:34	
(S) 4-Bromofluorobenzene	103			77.0-126		10/23/2023 11.34	WG2160054

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(S) p-Terphenyl-d14

78.9

SAMPLE RESULTS - 02

Collected date/time: 10/23/23 13:40

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	11/01/2023 10:49	WG2161004
Residual Range Organics (RRO)	U		83.3	250	1	11/01/2023 10:49	WG2161004
(S) o-Terphenyl	96.8			52.0-156		11/01/2023 10:49	WG2161004







Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	10/27/2023 02:42	WG2158210
Acenaphthene	U		0.0190	0.0500	1	10/27/2023 02:42	WG2158210
Acenaphthylene	U		0.0171	0.0500	1	10/27/2023 02:42	WG2158210
Benzo(a)anthracene	U		0.0203	0.0500	1	10/27/2023 02:42	WG2158210
Benzo(a)pyrene	U		0.0184	0.0500	1	10/27/2023 02:42	WG2158210
Benzo(b)fluoranthene	U		0.0168	0.0500	1	10/27/2023 02:42	WG2158210
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	10/27/2023 02:42	WG2158210
Benzo(k)fluoranthene	U		0.0202	0.0500	1	10/27/2023 02:42	WG2158210
Chrysene	U		0.0179	0.0500	1	10/27/2023 02:42	WG2158210
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	10/27/2023 02:42	WG2158210
Fluoranthene	U		0.0270	0.100	1	10/27/2023 02:42	WG2158210
Fluorene	U		0.0169	0.0500	1	10/27/2023 02:42	WG2158210
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	10/27/2023 02:42	WG2158210
Naphthalene	U		0.0917	0.250	1	10/27/2023 02:42	WG2158210
Phenanthrene	U		0.0180	0.0500	1	10/27/2023 02:42	WG2158210
Pyrene	U		0.0169	0.0500	1	10/27/2023 02:42	WG2158210
1-Methylnaphthalene	U		0.0687	0.250	1	10/27/2023 02:42	WG2158210
2-Methylnaphthalene	U		0.0674	0.250	1	10/27/2023 02:42	WG2158210
2-Chloronaphthalene	U		0.0682	0.250	1	10/27/2023 02:42	WG2158210
(S) Nitrobenzene-d5	87.9			31.0-160		10/27/2023 02:42	WG2158210
(S) 2-Fluorobiphenyl	96.8			48.0-148		10/27/2023 02:42	WG2158210

37.0-146

WG2158210

10/27/2023 02:42















NF-GW DUPL.

SAMPLE RESULTS - 03

Collected date/time: 10/23/23 13:15

Mercury by Method 7470A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	10/30/2023 20:18	WG2159708
Mercury, Dissolved	U		0.100	0.200	1	10/30/2023 23:37	WG2159706





Metals (ICP) by Method 6010D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	10/30/2023 20:21	WG2158880
Arsenic, Dissolved	U		4.40	10.0	1	10/31/2023 11:17	WG2158848
Barium	22.8		0.736	5.00	1	10/30/2023 20:21	WG2158880
Barium, Dissolved	1.25	<u>J</u>	0.736	5.00	1	10/31/2023 11:17	WG2158848
Cadmium	U		0.479	2.00	1	10/30/2023 20:21	WG2158880
Cadmium, Dissolved	U		0.479	2.00	1	10/31/2023 11:17	WG2158848
Chromium	4.27	<u>J</u>	1.40	10.0	1	10/30/2023 20:21	WG2158880
Chromium, Dissolved	U		1.40	10.0	1	10/31/2023 11:17	WG2158848
Lead	U		2.99	6.00	1	10/30/2023 20:21	WG2158880
Lead, Dissolved	U		2.99	6.00	1	10/31/2023 11:17	WG2158848
Selenium	U		7.35	10.0	1	10/30/2023 20:21	WG2158880
Selenium, Dissolved	U		7.35	10.0	1	10/31/2023 11:17	WG2158848
Silver	U		1.54	5.00	1	10/30/2023 20:21	WG2158880
Silver.Dissolved	U		1.54	5.00	1	10/31/2023 11:17	WG2158848















Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/01/2023 19:17	WG2161783
(S) a,a,a-Trifluorotoluene(FID)	93.6			78.0-120		11/01/2023 19:17	WG2161783

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	10/29/2023 11:54	WG2160054
Acrylonitrile	U		0.671	5.00	1	10/29/2023 11:54	WG2160054
Benzene	U		0.0941	0.500	1	10/29/2023 11:54	WG2160054
Bromobenzene	U		0.118	0.500	1	10/29/2023 11:54	WG2160054
Bromodichloromethane	U		0.136	0.500	1	10/29/2023 11:54	WG2160054
Bromochloromethane	U		0.128	0.500	1	10/29/2023 11:54	WG2160054
Bromoform	U		0.129	0.500	1	10/29/2023 11:54	WG2160054
Bromomethane	U		0.605	2.50	1	10/29/2023 11:54	WG2160054
n-Butylbenzene	U		0.157	0.500	1	10/29/2023 11:54	WG2160054
sec-Butylbenzene	U		0.125	0.500	1	10/29/2023 11:54	WG2160054
tert-Butylbenzene	U		0.127	0.500	1	10/29/2023 11:54	WG2160054
Carbon disulfide	U		0.0962	0.500	1	10/29/2023 11:54	WG2160054
Carbon tetrachloride	U		0.128	0.500	1	10/29/2023 11:54	WG2160054
Chlorobenzene	U		0.117	0.500	1	10/29/2023 11:54	WG2160054
Chlorodibromomethane	U		0.140	0.500	1	10/29/2023 11:54	WG2160054
Chloroethane	U		0.192	2.50	1	10/29/2023 11:54	WG2160054
2-Chloroethyl vinyl ether	U		0.575	50.0	1	10/29/2023 11:54	WG2160054
Chloroform	U		0.111	0.500	1	10/29/2023 11:54	WG2160054
Chloromethane	U		0.960	1.25	1	10/29/2023 11:54	WG2160054
2-Chlorotoluene	U		0.106	0.500	1	10/29/2023 11:54	WG2160054
4-Chlorotoluene	U		0.114	0.500	1	10/29/2023 11:54	WG2160054
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	10/29/2023 11:54	WG2160054
1,2-Dibromoethane	U		0.126	0.500	1	10/29/2023 11:54	WG2160054

(S) 1,2-Dichloroethane-d4

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SAMPLE RESULTS - 03

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Collected date/time: 10/23/23 13:15

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.122	0.500	1	10/29/2023 11:54	WG2160054
1,2-Dichlorobenzene	U		0.107	0.500	1	10/29/2023 11:54	WG2160054
1,3-Dichlorobenzene	U		0.299	0.500	1	10/29/2023 11:54	WG2160054
1,4-Dichlorobenzene	U		0.120	0.500	1	10/29/2023 11:54	WG2160054
Dichlorodifluoromethane	U		0.374	2.50	1	10/29/2023 11:54	WG2160054
1,1-Dichloroethane	U		0.100	0.500	1	10/29/2023 11:54	WG2160054
1,2-Dichloroethane	U		0.0819	0.500	1	10/29/2023 11:54	WG2160054
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2023 11:54	WG2160054
cis-1,2-Dichloroethene	U		0.126	0.500	1	10/29/2023 11:54	WG2160054
trans-1,2-Dichloroethene	U		0.149	0.500	1	10/29/2023 11:54	WG2160054
1,2-Dichloropropane	U		0.149	0.500	1	10/29/2023 11:54	WG2160054
1,1-Dichloropropene	U		0.142	0.500	1	10/29/2023 11:54	WG2160054
1,3-Dichloropropane	U		0.109	1.00	1	10/29/2023 11:54	WG2160054
cis-1,3-Dichloropropene	U		0.111	0.500	1	10/29/2023 11:54	WG2160054
trans-1,3-Dichloropropene	U		0.118	0.500	1	10/29/2023 11:54	WG2160054
trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.467	5.00	1	10/29/2023 11:54	WG2160054
2,2-Dichloropropane	U		0.161	0.500	1	10/29/2023 11:54	WG2160054
Di-isopropyl ether	U		0.105	0.500	1	10/29/2023 11:54	WG2160054
Ethylbenzene	U		0.137	0.500	1	10/29/2023 11:54	WG2160054
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2023 11:54	WG2160054
2-Hexanone	U		0.787	5.00	1	10/29/2023 11:54	WG2160054
n-Hexane	U		0.749	5.00	1	10/29/2023 11:54	WG2160054
lodomethane	U		0.554	5.00	1	10/29/2023 11:54	WG2160054
Isopropylbenzene	U		0.105	0.500	1	10/29/2023 11:54	WG2160054
p-lsopropyltoluene	U		0.120	0.500	1	10/29/2023 11:54	WG2160054
2-Butanone (MEK)	U		1.19	5.00	1	10/29/2023 11:54	WG2160054
Methylene Chloride	U		0.430	2.50	1	10/29/2023 11:54	WG2160054
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	10/29/2023 11:54	WG2160054
Methyl tert-butyl ether	U		0.101	0.500	1	10/29/2023 11:54	WG2160054
Naphthalene	U	<u>C3</u>	0.174	2.50	1	10/29/2023 11:54	WG2160054
n-Propylbenzene	U	<u> </u>	0.0993	0.500	1	10/29/2023 11:54	WG2160054
Styrene	U		0.118	0.500	1	10/29/2023 11:54	WG2160054
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	10/29/2023 11:54	WG2160054
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	10/29/2023 11:54	WG2160054
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	10/29/2023 11:54	WG2160054
Tetrachloroethene	U		0.300	0.500	1	10/29/2023 11:54	WG2160054 WG2160054
Toluene	U		0.278	0.500	1	10/29/2023 11:54	WG2160054 WG2160054
1,2,3-Trichlorobenzene	U	C3	0.278	0.500	1	10/29/2023 11:54	WG2160054 WG2160054
1,2,4-Trichlorobenzene	U	<u>C3</u>	0.481	1.00	1	10/29/2023 11:54	WG2160054 WG2160054
1,1,1-Trichloroethane	U	<u>C3</u>	0.481	0.500	1	10/29/2023 11:54	WG2160054 WG2160054
1,1,2-Trichloroethane	U		0.149	0.500	1	10/29/2023 11:54	WG2160054 WG2160054
	U						WG2160054 WG2160054
Trichloroethene Trichloroethene			0.190	0.500	1	10/29/2023 11:54 10/29/2023 11:54	WG2160054 WG2160054
Trichlorofluoromethane	U		0.160	2.50			
1,2,3-Trichloropropane	U		0.237	2.50	1	10/29/2023 11:54	WG2160054
1,2,4-Trimethylbenzene	U		0.322	0.500		10/29/2023 11:54	WG2160054
1,2,3-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 11:54	WG2160054
1,3,5-Trimethylbenzene	U	62	0.104	0.500	1	10/29/2023 11:54	WG2160054
Vinyl acetate	U	<u>C3</u>	0.692	5.00	1	10/29/2023 11:54	WG2160054
Vinyl chloride	U		0.234	0.500	1	10/29/2023 11:54	WG2160054
Xylenes, Total	U		0.174	1.50	1	10/29/2023 11:54	WG2160054
(S) Toluene-d8	105			80.0-120		10/29/2023 11:54	WG2160054
(S) 4-Bromofluorobenzene	99.6			77.0-126		10/29/2023 11:54	WG2160054
	107			70 0 120			

10/29/2023 11:54

WG2160054

70.0-130

(S) p-Terphenyl-d14

69.5

SAMPLE RESULTS - 03

Collected date/time: 10/23/23 13:15

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

		`	, ,				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	11/01/2023 11:29	WG2161004
Residual Range Organics (RRO)	146	<u>J</u>	83.3	250	1	11/01/2023 11:29	WG2161004
(S) o-Terphenyl	98.4			52.0-156		11/01/2023 11:29	WG2161004







Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	10/27/2023 03:00	WG2158210
Acenaphthene	U		0.0190	0.0500	1	10/27/2023 03:00	WG2158210
Acenaphthylene	U		0.0171	0.0500	1	10/27/2023 03:00	WG2158210
Benzo(a)anthracene	U		0.0203	0.0500	1	10/27/2023 03:00	WG2158210
Benzo(a)pyrene	U		0.0184	0.0500	1	10/27/2023 03:00	WG2158210
Benzo(b)fluoranthene	U		0.0168	0.0500	1	10/27/2023 03:00	WG2158210
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	10/27/2023 03:00	WG2158210
Benzo(k)fluoranthene	U		0.0202	0.0500	1	10/27/2023 03:00	WG2158210
Chrysene	U		0.0179	0.0500	1	10/27/2023 03:00	WG2158210
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	10/27/2023 03:00	WG2158210
Fluoranthene	U		0.0270	0.100	1	10/27/2023 03:00	WG2158210
Fluorene	U		0.0169	0.0500	1	10/27/2023 03:00	WG2158210
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	10/27/2023 03:00	WG2158210
Naphthalene	U		0.0917	0.250	1	10/27/2023 03:00	WG2158210
Phenanthrene	U		0.0180	0.0500	1	10/27/2023 03:00	WG2158210
Pyrene	U		0.0169	0.0500	1	10/27/2023 03:00	WG2158210
1-Methylnaphthalene	U		0.0687	0.250	1	10/27/2023 03:00	WG2158210
2-Methylnaphthalene	U		0.0674	0.250	1	10/27/2023 03:00	WG2158210
2-Chloronaphthalene	U		0.0682	0.250	1	10/27/2023 03:00	WG2158210
(S) Nitrobenzene-d5	85.5			31.0-160		10/27/2023 03:00	WG2158210
(S) 2-Fluorobiphenyl	99.5			48.0-148		10/27/2023 03:00	WG2158210

37.0-146

WG2158210

10/27/2023 03:00















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NF-GW MS1

SAMPLE RESULTS - 04

Collected date/time: 10/23/23 13:00 Mercury by Method 7470A

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.100	0.200	1	10/31/2023 10:30	WG2160641
Mercury, Dissolved	U		0.100	0.200	1	10/30/2023 23:39	WG2159706





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Metals (ICP) by Method 6010D

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Arsenic	U		4.40	10.0	1	10/30/2023 20:29	WG2158880
Arsenic, Dissolved	U		4.40	10.0	1	10/31/2023 11:20	WG2158848
Barium	9.46		0.736	5.00	1	10/30/2023 20:29	WG2158880
Barium, Dissolved	9.56		0.736	5.00	1	10/31/2023 11:20	WG2158848
Cadmium	U		0.479	2.00	1	10/30/2023 20:29	WG2158880
Cadmium, Dissolved	U		0.479	2.00	1	10/31/2023 11:20	WG2158848
Chromium	U		1.40	10.0	1	10/30/2023 20:29	WG2158880
Chromium, Dissolved	3.80	<u>J</u>	1.40	10.0	1	10/31/2023 11:20	WG2158848
Lead	U		2.99	6.00	1	10/30/2023 20:29	WG2158880
Lead, Dissolved	U		2.99	6.00	1	10/31/2023 11:20	WG2158848
Selenium	U		7.35	10.0	1	10/30/2023 20:29	WG2158880
Selenium, Dissolved	U		7.35	10.0	1	10/31/2023 11:20	WG2158848
Silver	U		1.54	5.00	1	10/30/2023 20:29	WG2158880
Silver, Dissolved	U		1.54	5.00	1	10/31/2023 11:20	WG2158848













Volatile Organic Compounds (GC) by Method NWTPHGX

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/01/2023 19:41	WG2161783
(S) a,a,a-Trifluorotoluene(FID)	93.0			78.0-120		11/01/2023 19:41	WG2161783

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	10/29/2023 12:14	WG2160054
Acrylonitrile	U		0.671	5.00	1	10/29/2023 12:14	WG2160054
Benzene	U		0.0941	0.500	1	10/29/2023 12:14	WG2160054
Bromobenzene	U		0.118	0.500	1	10/29/2023 12:14	WG2160054
Bromodichloromethane	U		0.136	0.500	1	10/29/2023 12:14	WG2160054
Bromochloromethane	U		0.128	0.500	1	10/29/2023 12:14	WG2160054
Bromoform	U		0.129	0.500	1	10/29/2023 12:14	WG2160054
Bromomethane	U		0.605	2.50	1	10/29/2023 12:14	WG2160054
n-Butylbenzene	U		0.157	0.500	1	10/29/2023 12:14	WG2160054
sec-Butylbenzene	U		0.125	0.500	1	10/29/2023 12:14	WG2160054
tert-Butylbenzene	U		0.127	0.500	1	10/29/2023 12:14	WG2160054
Carbon disulfide	U		0.0962	0.500	1	10/29/2023 12:14	WG2160054
Carbon tetrachloride	U		0.128	0.500	1	10/29/2023 12:14	WG2160054
Chlorobenzene	U		0.117	0.500	1	10/29/2023 12:14	WG2160054
Chlorodibromomethane	U		0.140	0.500	1	10/29/2023 12:14	WG2160054
Chloroethane	U		0.192	2.50	1	10/29/2023 12:14	WG2160054
2-Chloroethyl vinyl ether	U		0.575	50.0	1	10/29/2023 12:14	WG2160054
Chloroform	U		0.111	0.500	1	10/29/2023 12:14	WG2160054
Chloromethane	U		0.960	1.25	1	10/29/2023 12:14	WG2160054
2-Chlorotoluene	U		0.106	0.500	1	10/29/2023 12:14	WG2160054
4-Chlorotoluene	U		0.114	0.500	1	10/29/2023 12:14	WG2160054
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	10/29/2023 12:14	WG2160054
1,2-Dibromoethane	U		0.126	0.500	1	10/29/2023 12:14	WG2160054

Collected date/time: 10/23/23 13:00

SAMPLE RESULTS - 04

1670158

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

	Result	Qualifier	MDL	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	ug/l		ug/l	ug/l		date / time	
Dibromomethane	U		0.122	0.500	1	10/29/2023 12:14	WG2160054
1,2-Dichlorobenzene	U		0.107	0.500	1	10/29/2023 12:14	WG2160054
1,3-Dichlorobenzene	U		0.299	0.500	1	10/29/2023 12:14	WG2160054
1,4-Dichlorobenzene	U		0.120	0.500	1	10/29/2023 12:14	WG2160054
Dichlorodifluoromethane	U		0.374	2.50	1	10/29/2023 12:14	WG2160054
1,1-Dichloroethane	U		0.100	0.500	1	10/29/2023 12:14	WG2160054
1,2-Dichloroethane	U		0.0819	0.500	1	10/29/2023 12:14	WG2160054
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2023 12:14	<u>WG2160054</u>
cis-1,2-Dichloroethene	U		0.126	0.500	1	10/29/2023 12:14	<u>WG2160054</u>
trans-1,2-Dichloroethene	U		0.149	0.500	1	10/29/2023 12:14	<u>WG2160054</u>
1,2-Dichloropropane	U		0.149	0.500	1	10/29/2023 12:14	WG2160054
1,1-Dichloropropene	U		0.142	0.500	1	10/29/2023 12:14	WG2160054
1,3-Dichloropropane	U		0.109	1.00	1	10/29/2023 12:14	WG2160054
cis-1,3-Dichloropropene	U		0.111	0.500	1	10/29/2023 12:14	WG2160054
trans-1,3-Dichloropropene	U		0.118	0.500	1	10/29/2023 12:14	WG2160054
trans-1,4-Dichloro-2-butene	U	<u>C3</u>	0.467	5.00	1	10/29/2023 12:14	WG2160054
2,2-Dichloropropane	U		0.161	0.500	1	10/29/2023 12:14	WG2160054
Di-isopropyl ether	U		0.105	0.500	1	10/29/2023 12:14	WG2160054
Ethylbenzene	U		0.137	0.500	1	10/29/2023 12:14	WG2160054
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/29/2023 12:14	WG2160054
2-Hexanone	U		0.787	5.00	1	10/29/2023 12:14	WG2160054
n-Hexane	U		0.749	5.00	1	10/29/2023 12:14	WG2160054
lodomethane	U		0.554	5.00	1	10/29/2023 12:14	WG2160054
Isopropylbenzene	U		0.105	0.500	1	10/29/2023 12:14	WG2160054
p-Isopropyltoluene	U		0.120	0.500	1	10/29/2023 12:14	WG2160054
2-Butanone (MEK)	U		1.19	5.00	1	10/29/2023 12:14	WG2160054
Methylene Chloride	U		0.430	2.50	1	10/29/2023 12:14	WG2160054
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	10/29/2023 12:14	WG2160054
Methyl tert-butyl ether	U		0.101	0.500	1	10/29/2023 12:14	WG2160054
Naphthalene	U	<u>C3</u>	0.174	2.50	1	10/29/2023 12:14	WG2160054
n-Propylbenzene	U		0.0993	0.500	1	10/29/2023 12:14	WG2160054
Styrene	U		0.118	0.500	1	10/29/2023 12:14	WG2160054
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	10/29/2023 12:14	WG2160054
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	10/29/2023 12:14	WG2160054
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	10/29/2023 12:14	WG2160054
Tetrachloroethene	U		0.300	0.500	1	10/29/2023 12:14	WG2160054
Toluene	U		0.278	0.500	1	10/29/2023 12:14	WG2160054
1,2,3-Trichlorobenzene	U	<u>C3</u>	0.164	0.500	1	10/29/2023 12:14	WG2160054
1,2,4-Trichlorobenzene	U	<u>C3</u>	0.481	1.00	1	10/29/2023 12:14	WG2160054
1,1,1-Trichloroethane	U		0.149	0.500	1	10/29/2023 12:14	WG2160054
1,1,2-Trichloroethane	U		0.158	0.500	1	10/29/2023 12:14	WG2160054
Trichloroethene	U		0.190	0.500	1	10/29/2023 12:14	WG2160054
Trichlorofluoromethane	U		0.160	2.50	1	10/29/2023 12:14	WG2160054
1,2,3-Trichloropropane	U		0.237	2.50	1	10/29/2023 12:14	WG2160054
1,2,4-Trimethylbenzene	U		0.322	0.500	1	10/29/2023 12:14	WG2160054
1,2,3-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 12:14	WG2160054
1,3,5-Trimethylbenzene	U		0.104	0.500	1	10/29/2023 12:14	WG2160054
Vinyl acetate	U	<u>C3</u>	0.692	5.00	1	10/29/2023 12:14	WG2160054
Vinyl chloride	U		0.234	0.500	1	10/29/2023 12:14	WG2160054
Xylenes, Total	U		0.174	1.50	1	10/29/2023 12:14	WG2160054
(S) Toluene-d8	104			80.0-120		10/29/2023 12:14	WG2160054
(S) 4-Bromofluorobenzene	98.8			77.0-126		10/29/2023 12:14	WG2160054

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¹⁰Sc

(S) p-Terphenyl-d14

56.8

SAMPLE RESULTS - 04

Collected date/time: 10/23/23 13:00

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	•	•	, ,				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	U		66.7	200	1	11/01/2023 12:08	WG2161004
Residual Range Organics (RRO)	U		83.3	250	1	11/01/2023 12:08	WG2161004
(S) o-Terphenyl	95.3			52.0-156		11/01/2023 12:08	WG2161004







Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Analyte	ug/l		ug/l	ug/l		date / time	
Anthracene	U		0.0190	0.0500	1	10/27/2023 14:44	WG2158650
Acenaphthene	U		0.0190	0.0500	1	10/27/2023 14:44	WG2158650
Acenaphthylene	U		0.0171	0.0500	1	10/27/2023 14:44	WG2158650
Benzo(a)anthracene	U		0.0203	0.0500	1	10/27/2023 14:44	WG2158650
Benzo(a)pyrene	U		0.0184	0.0500	1	10/27/2023 14:44	WG2158650
Benzo(b)fluoranthene	U		0.0168	0.0500	1	10/27/2023 14:44	WG2158650
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	10/27/2023 14:44	WG2158650
Benzo(k)fluoranthene	U		0.0202	0.0500	1	10/27/2023 14:44	WG2158650
Chrysene	U		0.0179	0.0500	1	10/27/2023 14:44	WG2158650
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	10/27/2023 14:44	WG2158650
Fluoranthene	U		0.0270	0.100	1	10/27/2023 14:44	WG2158650
Fluorene	U		0.0169	0.0500	1	10/27/2023 14:44	WG2158650
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	10/27/2023 14:44	WG2158650
Naphthalene	U		0.0917	0.250	1	10/27/2023 14:44	WG2158650
Phenanthrene	U		0.0180	0.0500	1	10/27/2023 14:44	WG2158650
Pyrene	U		0.0169	0.0500	1	10/27/2023 14:44	WG2158650
1-Methylnaphthalene	U		0.0687	0.250	1	10/27/2023 14:44	WG2158650
2-Methylnaphthalene	U		0.0674	0.250	1	10/27/2023 14:44	WG2158650
2-Chloronaphthalene	U		0.0682	0.250	1	10/27/2023 14:44	WG2158650
(S) Nitrobenzene-d5	98.4			31.0-160		10/27/2023 14:44	WG2158650
(S) 2-Fluorobiphenyl	84.2			48.0-148		10/27/2023 14:44	WG2158650

37.0-146















10/27/2023 14:44

WG2158650

QUALITY CONTROL SUMMARY

L1670158-01

Mercury by Method 7470A

(MB) R3992699-1 10/29/23 22:16

Method Blank (MB)

	MB Result	MB Qualifier MB MD	L MB RDL		
Analyte	ug/l	ug/l	ug/l		
Mercury	U	0.100	0.200		







Laboratory Control Sample (LCS)

(LCS) R3992699-2 10/29/23 22:18

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.26	109	80.0-120	







(OS) L1670110-03 10/29/23 22:21 • (MS) R3992699-3 10/29/23 22:23 • (MSD) R3992699-4 10/29/23 22:33

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Mercury	3.00	П	2 98	2 93	99 5	97.7	1	75 O-125			183	20







QUALITY CONTROL SUMMARY

L1670158-01,02,03,04

Mercury by Method 7470A

(MB) R3993057-1 10/3	0/23 23:13			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury, Dissolved	U		0.100	0.200









	. _		
(LCS) R3993057-2	10/30/23	23:15

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury Dissolved	3.00	3 16	105	80 O-120	









(OS) L1670961-09 10/30/23 23:18 • (MS) R3993057-3 10/30/23 23:25 • (MSD) R3993057-4 10/30/23 23:27

,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	
Mercury Dissolved	3.00	П	3 17	3 14	106	105	1	75 0-125			1.03	20	

SDG:

L1670158

DATE/TIME:

11/03/23 13:43







PAGE:

19 of 38

QUALITY CONTROL SUMMARY

L1670158-03

Mercury by Method 7470A Method Blank (MB)

(MB) R3993019-1 10/30/23 20:06

(,	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Mercury	U		0.100	0.200







Laboratory Control Sample (LCS)

(LCS) R3993019-2 10/30/23 20:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.12	104	80.0-120	











(OS) L1670116-01 10/30/23 20:11 • (MS) R3993019-3 10/30/23 20:13 • (MSD) R3993019-4 10/30/23 20:16

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	
Mercury	3.00	П	3 18	3 19	106	106	1	75 0-125			0.396	20	







QUALITY CONTROL SUMMARY

L1670158-02

Mercury by Method 7470A

(MB) R3993006-1 10/30/23 19:04

Method Blank (MB)

Laboratory Control Sample (LCS)

(LCS) R3993006-2 10/30/23 19:06

()					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.05	102	80.0-120	





L1671483-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671483-08 10/30/23 19:09 • (MS) R3993006-3 10/30/23 19:11 • (MSD) R3993006-4 10/30/23 19:14

, ,	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	
Mercury	3.00	U	3 14	3.23	105	108	1	75 0-125			2 58	20	









QUALITY CONTROL SUMMARY

L1670158-04

Mercury by Method 7470A

Method Blank (MB)

Mercury

(MB) R3993356-1 10/31/23 10:10 MB Result MB MI MB Qualifier Analyte ug/l ug/l

U

	L
ug/l	

0.200







Ss

Laboratory Control Sample (LCS)

(LCS) R3993356-2 10/31/23 10:12

, ,	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Mercury	3.00	3.12	104	80.0-120	











0.100

(OS) L1671639-06 10/31/23 10:15 • (MS) R3993356-3 10/31/23 10:17 • (MSD) R3993356-4 10/31/23 10:25

, ,	Spike Amount	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	
Mercury	3.00	U	1.99	2.00	66.2	66.8	1	75.0-125	J6	J6	0.847	20	









QUALITY CONTROL SUMMARY

L1670158-01,02,03,04

Method Blank (MB)

Metals (ICP) by Method 6010D

(MB) R3993466-1	10/31/23 10:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Arsenic, Dissolved	U		4.40	10.0
Barium, Dissolved	U		0.736	5.00
Cadmium, Dissolved	U		0.479	2.00
Chromium, Dissolved	U		1.40	10.0
Lead, Dissolved	U		2.99	6.00
Selenium, Dissolved	U		7.35	10.0











Laboratory Control Sample (LCS)

U

(LCS) R3993466-2 10/31/23 10:43

Silver, Dissolved

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	ug/l	ug/l	%	%
Arsenic, Dissolved	1000	1010	101	80.0-120
Barium, Dissolved	1000	1030	103	80.0-120
Cadmium, Dissolved	1000	988	98.8	80.0-120
Chromium, Dissolved	1000	1010	101	80.0-120
Lead, Dissolved	1000	1010	101	80.0-120
Selenium, Dissolved	1000	1030	103	80.0-120
Silver, Dissolved	200	202	101	80.0-120













L1670158-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1.54

5.00

LCS Qualifier

(OS) L1670158-02 10/31/23 10:46 • (MS) R3993466-4 10/31/23 10:52 • (MSD) R3993466-5 10/31/23 10:54

	Spike Amount	Original Result	MC Decul									
		Original Result	M2 Kesult	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic, Dissolved	1000	U	1030	1020	103	102	1	75.0-125			0.696	20
Barium, Dissolved	1000	9.55	1050	1050	104	104	1	75.0-125			0.600	20
Cadmium, Dissolved	1000	U	998	993	99.8	99.3	1	75.0-125			0.517	20
Chromium, Dissolved	1000	3.32	1030	1010	102	101	1	75.0-125			1.46	20
Lead, Dissolved	1000	U	1010	1010	101	101	1	75.0-125			0.526	20
Selenium, Dissolved	1000	U	1030	1020	103	102	1	75.0-125			0.700	20
Silver, Dissolved	200	U	203	199	102	99.7	1	75.0-125			1.83	20

QUALITY CONTROL SUMMARY

L1670158-01,02,03,04

Method Blank (MB)

Metals (ICP) by Method 6010D

(MB) R3993063-1	10/30/23	19:19	

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Arsenic	U		4.40	10.0
Barium	U		0.736	5.00
Cadmium	U		0.479	2.00
Chromium	U		1.40	10.0
Lead	U		2.99	6.00
Selenium	U		7.35	10.0











Laboratory Control Sample (LCS)

U

(LCS) R3993063-2 10/30/23 19:22

Silver

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits
Analyte	ug/l	ug/l	%	%
Arsenic	1000	1040	104	80.0-120
Barium	1000	1050	105	80.0-120
Cadmium	1000	1020	102	80.0-120
Chromium	1000	1010	101	80.0-120
Lead	1000	992	99.2	80.0-120
Selenium	1000	1000	100	80.0-120
Silver	200	201	100	80.0-120













L1670131-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1.54

5.00

LCS Qualifier

(OS) L1670131-02 10/30/23 19:25 • (MS) R3993063-4 10/30/23 19:32 • (MSD) R3993063-5 10/30/23 19:35

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Arsenic	1000	U	1110	1130	111	113	1	75.0-125			1.69	20
Barium	1000	293	1310	1310	101	102	1	75.0-125			0.542	20
Cadmium	1000	U	1090	1100	109	110	1	75.0-125			0.759	20
Chromium	1000	U	981	993	98.1	99.3	1	75.0-125			1.26	20
Lead	1000	U	980	997	98.0	99.7	1	75.0-125			1.69	20
Selenium	1000	15.7	1110	1130	110	111	1	75.0-125			1.64	20
Silver	200	4.19	227	228	111	112	1	75.0-125			0.462	20

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method NWTPHGX

L1670158-01

Method Blank (MB)

(MB) R3994017-3 10/31/2	23 14:45			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	92.9			78.0-120

⁴Cn

Laboratory Control Sample (LCS)

(LCS) R3994017-2 10/31/	23 13:59				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Gasoline Range Organics-NWTPH	5500	5430	98.7	70.0-124	
(S)			100	78.0-120	









QUALITY CONTROL SUMMARY

Volatile Organic Compounds (GC) by Method NWTPHGX

L1670158-02,03,04

Method Blank (MB)

(MB) R3994359-3 11/01/2	23 14:44			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	92.6			78.0-120

3 Ss

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Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3994359-1 11/01/2	3 13:30 • (LCSD)) R3994359-2	11/01/23 13:55							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Gasoline Range Organics-NWTPH	5500	4820	4880	87.6	88.7	70.0-124			1.24	20
(S) a a a-Trifluorotoluene(FID)				97.8	97.8	78.0-120				











QUALITY CONTROL SUMMARY

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

L1670158-01,02,03,04

Method Blank (MB)

(MB) R3993287-3 10/29/2	3 09:12				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Acetone	U		11.3	25.0	
Acrylonitrile	U		0.671	5.00	
Benzene	U		0.0941	0.500	
Bromobenzene	U		0.118	0.500	
Bromodichloromethane	U		0.136	0.500	
Bromochloromethane	U		0.128	0.500	
Bromoform	U		0.129	0.500	
Bromomethane	U		0.605	2.50	
n-Butylbenzene	U		0.157	0.500	
sec-Butylbenzene	U		0.125	0.500	
tert-Butylbenzene	U		0.127	0.500	
Carbon disulfide	U		0.0962	0.500	
Carbon tetrachloride	U		0.128	0.500	
Chlorobenzene	U		0.117	0.500	
Chlorodibromomethane	U		0.140	0.500	
Chloroethane	U		0.192	2.50	
2-Chloroethyl vinyl ether	U		0.575	50.0	
Chloroform	U		0.111	0.500	
Chloromethane	U		0.960	1.25	
2-Chlorotoluene	U		0.106	0.500	
4-Chlorotoluene	U		0.114	0.500	
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	
1,2-Dibromoethane	U		0.126	0.500	
Dibromomethane	U		0.122	0.500	
1,2-Dichlorobenzene	U		0.107	0.500	
1,3-Dichlorobenzene	U		0.299	0.500	
1,4-Dichlorobenzene	U		0.120	0.500	
Dichlorodifluoromethane	U		0.374	2.50	
1,1-Dichloroethane	U		0.100	0.500	
1,2-Dichloroethane	U		0.0819	0.500	
1,1-Dichloroethene	U		0.188	0.500	
cis-1,2-Dichloroethene	U		0.126	0.500	
trans-1,2-Dichloroethene	U		0.149	0.500	
1,2-Dichloropropane	U		0.149	0.500	
1,1-Dichloropropene	U		0.142	0.500	
1,3-Dichloropropane	U		0.109	1.00	
cis-1,3-Dichloropropene	U		0.111	0.500	
trans-1,3-Dichloropropene	U		0.118	0.500	
trans-1,4-Dichloro-2-butene	U		0.467	5.00	
2,2-Dichloropropane	U		0.161	0.500	

QUALITY CONTROL SUMMARY

L1670158-01,02,03,04

Method Blank (MR)

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

Method Blank (MB))				
(MB) R3993287-3 10/29/2	23 09:12				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Di-isopropyl ether	U		0.105	0.500	
Ethylbenzene	U		0.137	0.500	
Hexachloro-1,3-butadiene	U		0.337	1.00	
2-Hexanone	U		0.787	5.00	
n-Hexane	U		0.749	5.00	
lodomethane	14.6		0.554	5.00	
Isopropylbenzene	U		0.105	0.500	
p-Isopropyltoluene	U		0.120	0.500	
2-Butanone (MEK)	U		1.19	5.00	
Methylene Chloride	U		0.430	2.50	
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	
Methyl tert-butyl ether	U		0.101	0.500	
Naphthalene	U		0.174	2.50	
n-Propylbenzene	U		0.0993	0.500	
Styrene	U		0.118	0.500	
1,1,1,2-Tetrachloroethane	U		0.147	0.500	
1,1,2,2-Tetrachloroethane	U		0.133	0.500	
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	
Tetrachloroethene	U		0.300	0.500	
Toluene	U		0.278	0.500	
1,2,3-Trichlorobenzene	U		0.164	0.500	
1,2,4-Trichlorobenzene	U		0.481	1.00	
1,1,1-Trichloroethane	U		0.149	0.500	
1,1,2-Trichloroethane	U		0.158	0.500	
Trichloroethene	U		0.190	0.500	
Trichlorofluoromethane	U		0.160	2.50	
1,2,3-Trichloropropane	U		0.237	2.50	
1,2,4-Trimethylbenzene	U		0.322	0.500	
1,2,3-Trimethylbenzene	U		0.104	0.500	
1,3,5-Trimethylbenzene	U		0.104	0.500	
Vinyl acetate	U		0.692	5.00	
Vinyl chloride	U		0.234	0.500	
Xylenes, Total	U		0.174	1.50	
(S) Toluene-d8	107			80.0-120	
(S) 4-Bromofluorobenzene	101			77.0-126	
(S) 1,2-Dichloroethane-d4	108			70.0-130	
1-7 /= = :::::::::::::::::::::::::::::::::					

2,2-Dichloropropane

5.00

4.30

3.91

QUALITY CONTROL SUMMARY

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

L1670158-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD) (LCS) R3993287-1 10/29/23 08:11 • (LCSD) R3993287-2 10/29/23 08:31 **RPD Limits** Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier RPD Analyte ug/l % % % % % ug/l uq/l Acetone 25.0 26.3 24.2 105 96.8 19.0-160 8.32 27 25.0 106 105 20 Acrylonitrile 26.6 26.3 55.0-149 1.13 Benzene 5.00 5.25 4.87 105 97.4 70.0-123 7.51 20 4.97 99.4 96.2 3.27 20 Bromobenzene 5.00 4.81 73.0-121 5.00 100 97.2 75.0-120 3.04 20 Bromodichloromethane 5.01 4.86 5.00 5.58 112 103 76.0-122 7.82 20 Bromochloromethane 5.16 5.00 4.55 91.0 91.2 68.0-132 0.220 20 Bromoform 4.56 Bromomethane 5.00 4.20 4.54 84.0 90.8 10.0-160 7.78 25 73.0-125 2.21 20 n-Butylbenzene 5.00 4.57 4.47 91.4 89.4 20 sec-Butylbenzene 5.00 4.71 4.57 94.2 91.4 75.0-125 3.02 20 tert-Butylbenzene 5.00 4.79 4.50 95.8 90.0 76.0-124 6.24 20 Carbon disulfide 5.00 4.65 4.33 93.0 86.6 61.0-128 7.13 Carbon tetrachloride 5.00 4.91 4.67 98.2 93.4 68.0-126 5.01 20 20 Chlorobenzene 5.00 4.99 4.77 99.8 95.4 80.0-121 4.51 97.0 77.0-125 1.03 20 Chlorodibromomethane 5.00 4.90 4.85 98.0 Chloroethane 5.00 6.04 5.33 121 107 47.0-150 12.5 20 20 2-Chloroethyl vinyl ether 25.0 24.4 23.5 97.6 94.0 51.0-160 3.76 Chloroform 5.00 5.25 4.87 105 97.4 73.0-120 7.51 20 41.0-142 20 Chloromethane 5.00 4.70 4.35 94.0 87.0 7.73 5.00 5.10 4.72 102 94.4 76.0-123 7.74 20 2-Chlorotoluene 20 4-Chlorotoluene 5.00 4.93 4.60 98.6 92.0 75.0-122 6.93 5.00 4.39 3.97 87.8 79.4 58.0-134 10.0 20 1,2-Dibromo-3-Chloropropane 1,2-Dibromoethane 5.00 5.06 5.15 101 103 80.0-122 1.76 20 5.00 5.02 4.68 100 93.6 80.0-120 7.01 20 Dibromomethane 1,2-Dichlorobenzene 5.00 4.83 4.82 96.6 96.4 79.0-121 0.207 20 5.00 4.78 4.60 95.6 92.0 79.0-120 3.84 20 1,3-Dichlorobenzene 20 1,4-Dichlorobenzene 5.00 4.85 4.40 97.0 88.0 79.0-120 9.73 Dichlorodifluoromethane 5.00 5.35 5.15 107 103 51.0-149 3.81 20 1.1-Dichloroethane 20 5.00 5.14 4.80 103 96.0 70.0-126 6.84 5.07 4.94 101 98.8 70.0-128 2.60 20 1,2-Dichloroethane 5.00 20 1,1-Dichloroethene 5.00 4.77 4.69 95.4 93.8 71.0-124 1.69 20 5.00 5.04 4.85 101 97.0 73.0-120 3.84 cis-1,2-Dichloroethene trans-1,2-Dichloroethene 5.00 5.00 4.66 100 93.2 73.0-120 7.04 20 5.00 105 96.0 77.0-125 8.57 20 1,2-Dichloropropane 5.23 4.80 5.00 4.76 4.68 95.2 93.6 74.0-126 1.69 20 1,1-Dichloropropene 98.6 80.0-120 1.02 20 1,3-Dichloropropane 5.00 4.88 4.93 97.6 4.34 90.4 80.0-123 4.06 20 cis-1,3-Dichloropropene 5.00 4.52 86.8 trans-1,3-Dichloropropene 5.00 4.63 4.45 92.6 89.0 78.0-124 3.96 20 trans-1,4-Dichloro-2-butene 5.00 3.80 84.8 33.0-144 20 4.24 76.0 10.9

ACCOUNT: PROJECT: SDG: DATE/TIME: PAGE: Stantec Consulting - Portland, OR 185706185 L1670158 11/03/23 13:43 29 of 38

58.0-130

9.50

20

78.2

86.0

QUALITY CONTROL SUMMARY

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

L1670158-01,02,03,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3993287-1 10/29/23 08:11 • (LCSD) R3993287-2 10/29/23 08:31 LCSD Rec. **RPD Limits** Spike Amount LCS Result LCSD Result LCS Rec. Rec. Limits LCS Qualifier LCSD Qualifier RPD Analyte ug/l ug/l ug/l % % % % % Di-isopropyl ether 5.00 5.01 4.88 100 97.6 58.0-138 2.63 20 20 5.00 5.12 4.88 102 97.6 79.0-123 4.80 Ethylbenzene Hexachloro-1,3-butadiene 5.00 4.16 3.96 83.2 79.2 54.0-138 4.93 20 25.0 22.6 92.0 90.4 67.0-149 1.75 20 2-Hexanone 23.0 5.00 4.69 4.58 93.8 91.6 57.0-133 2.37 20 n-Hexane 25.0 23.3 93.2 99.6 33.0-147 6.64 26 Iodomethane 24.9 5.00 4.93 98.6 95.2 76.0-127 3.51 20 Isopropylbenzene 4.76 p-Isopropyltoluene 5.00 4.74 4.59 94.8 91.8 76.0-125 3.22 20 25.0 25.6 102 88.88 44.0-160 14.2 20 2-Butanone (MEK) 22.2 20 98.0 Methylene Chloride 5.00 4.90 4.73 94.6 67.0-120 3.53 107 68.0-142 20 4-Methyl-2-pentanone (MIBK) 25.0 27.1 26.8 108 1.11 20 4.51 94.6 90.2 4.76 Methyl tert-butyl ether 5.00 4.73 68.0-125 Naphthalene 5.00 3.68 3.87 73.6 77.4 54.0-135 5.03 20 99.8 93.0 77.0-124 20 n-Propylbenzene 5.00 4.99 4.65 7.05 5.00 4.79 98.2 95.8 73.0-130 2.47 20 Styrene 4.91 1,1,1,2-Tetrachloroethane 5.00 4.77 4.49 95.4 89.8 75.0-125 6.05 20 5.00 4.81 4.83 96.2 65.0-130 0.415 20 1,1,2,2-Tetrachloroethane 96.6 1,1,2-Trichlorotrifluoroethane 5.00 5.01 4.41 100 88.2 69.0-132 12.7 20 103 72.0-132 8.52 20 Tetrachloroethene 5.00 5.14 4.72 94.4 5.00 4.98 4.78 99.6 95.6 79.0-120 4.10 20 Toluene 20 1,2,3-Trichlorobenzene 5.00 3.81 3.91 76.2 78.2 50.0-138 2.59 5.00 3.94 3.98 78.8 79.6 57.0-137 1.01 20 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 5.00 4.99 4.79 99.8 95.8 73.0-124 4.09 20 1,1,2-Trichloroethane 5.00 5.16 4.94 103 98.8 80.0-120 4.36 20 20 Trichloroethene 5.00 5.34 4.88 107 97.6 78.0-124 9.00 5.00 4.75 4.51 95.0 90.2 59.0-147 5.18 20 Trichlorofluoromethane 20 1,2,3-Trichloropropane 5.00 5.24 5.10 105 102 73.0-130 2.71 1,2,4-Trimethylbenzene 5.00 4.84 4.54 96.8 90.8 76.0-121 6.40 20 77.0-120 20 1,2,3-Trimethylbenzene 5.00 4.97 4.63 99.4 92.6 7.08 5.00 4.87 4.80 97.4 96.0 76.0-122 1.45 20 1,3,5-Trimethylbenzene 20 Vinyl acetate 25.0 15.4 17.6 61.6 70.4 11.0-160 13.3 20 5.00 5.39 5.08 108 102 67.0-131 5.92 Vinyl chloride Xylenes, Total 15.0 14.6 14.4 97.3 96.0 79.0-123 1.38 20 105 106 80.0-120 (S) Toluene-d8























(S) 4-Bromofluorobenzene

(S) 1,2-Dichloroethane-d4

102

109

77.0-126

70.0-130

99.7

108

11/03/23 13:43

QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

L1670158-01,02,03,04

Method Blank (MB)

(MB) R3993951-1 10/31/23	21:07			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	81.5			52.0-156







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(200) 1100000012 10/01/2	(200) (00000012 10/01/20 21:00 (2000) (000000010 10/01/20 21:00									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Diesel Range Organics (DRO)	1500	1410	1510	94.0	101	50.0-150			6.85	20
(S) o-Terphenyl				85.5	85.5	52.0-156				















QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

L1670158-01,02,03

Method Blank (MB)

(MB) R3993403-3 10/2	7/23 01:14				- `
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	2,
Anthracene	U		0.0190	0.0500	L
Acenaphthene	U		0.0190	0.0500	3
Acenaphthylene	U		0.0171	0.0500	L
Benzo(a)anthracene	U		0.0203	0.0500	4
Benzo(a)pyrene	U		0.0184	0.0500	4
Benzo(b)fluoranthene	U		0.0168	0.0500	느
Benzo(g,h,i)perylene	U		0.0184	0.0500	5
Benzo(k)fluoranthene	U		0.0202	0.0500	L
Chrysene	U		0.0179	0.0500	6
Dibenz(a,h)anthracene	U		0.0160	0.0500	6
Fluoranthene	U		0.0270	0.100	L
Fluorene	U		0.0169	0.0500	7
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	
Naphthalene	U		0.0917	0.250	8
Phenanthrene	U		0.0180	0.0500	8
Pyrene	U		0.0169	0.0500	L
1-Methylnaphthalene	U		0.0687	0.250	9
2-Methylnaphthalene	U		0.0674	0.250	L
2-Chloronaphthalene	U		0.0682	0.250	10
(S) Nitrobenzene-d5	99.0			31.0-160	10
(S) 2-Fluorobiphenyl	115			48.0-148	L
(S) p-Terphenyl-d14	115			37.0-146	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3993403-1 10/27	LCS) R3993403-1 10/27/23 00:38 • (LCSD) R3993403-2 10/27/23 00:56										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	
Anthracene	2.00	1.89	1.83	94.5	91.5	67.0-150			3.23	20	
Acenaphthene	2.00	1.91	1.89	95.5	94.5	65.0-138			1.05	20	
Acenaphthylene	2.00	1.96	1.89	98.0	94.5	66.0-140			3.64	20	
Benzo(a)anthracene	2.00	2.05	1.99	103	99.5	61.0-140			2.97	20	
Benzo(a)pyrene	2.00	1.93	1.97	96.5	98.5	60.0-143			2.05	20	
Benzo(b)fluoranthene	2.00	1.91	1.93	95.5	96.5	58.0-141			1.04	20	
Benzo(g,h,i)perylene	2.00	1.76	1.85	88.0	92.5	52.0-153			4.99	20	
Benzo(k)fluoranthene	2.00	1.81	1.83	90.5	91.5	58.0-148			1.10	20	
Chrysene	2.00	2.12	2.06	106	103	64.0-144			2.87	20	
Dibenz(a,h)anthracene	2.00	1.75	1.82	87.5	91.0	52.0-155			3.92	20	
Fluoranthene	2.00	2.06	2.06	103	103	69.0-153			0.000	20	

11/03/23 13:43



















QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

L1670158-01,02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3993403-1 10/27/23 00:38 • (LCSD) R3993403-2 10/27/23 00:56

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Fluorene	2.00	2.04	2.04	102	102	64.0-136			0.000	20
Indeno(1,2,3-cd)pyrene	2.00	1.86	1.96	93.0	98.0	54.0-153			5.24	20
Naphthalene	2.00	2.03	1.98	102	99.0	61.0-137			2.49	20
Phenanthrene	2.00	1.99	1.92	99.5	96.0	62.0-137			3.58	20
Pyrene	2.00	2.03	1.96	102	98.0	60.0-142			3.51	20
1-Methylnaphthalene	2.00	2.09	2.12	104	106	66.0-142			1.43	20
2-Methylnaphthalene	2.00	2.13	2.11	106	105	62.0-136			0.943	20
2-Chloronaphthalene	2.00	1.99	1.91	99.5	95.5	64.0-140			4.10	20
(S) Nitrobenzene-d5				93.5	85.5	31.0-160				
(S) 2-Fluorobiphenyl				103	95.5	48.0-148				
(S) p-Terphenyl-d14				99.0	95.0	37.0-146				





















SDG:

QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

L1670158-04

Method Blank (MB)

(MB) R3993679-3 10/2	7/23 11:49				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Anthracene	U		0.0190	0.0500	
Acenaphthene	U		0.0190	0.0500	
Acenaphthylene	U		0.0171	0.0500	
Benzo(a)anthracene	U		0.0203	0.0500	
Benzo(a)pyrene	U		0.0184	0.0500	
Benzo(b)fluoranthene	U		0.0168	0.0500	
Benzo(g,h,i)perylene	U		0.0184	0.0500	
Benzo(k)fluoranthene	U		0.0202	0.0500	
Chrysene	U		0.0179	0.0500	
Dibenz(a,h)anthracene	U		0.0160	0.0500	
luoranthene	U		0.0270	0.100	
Fluorene	U		0.0169	0.0500	
ndeno(1,2,3-cd)pyrene	U		0.0158	0.0500	
laphthalene	U		0.0917	0.250	
Phenanthrene	U		0.0180	0.0500	
Pyrene	U		0.0169	0.0500	
-Methylnaphthalene	U		0.0687	0.250	
?-Methylnaphthalene	U		0.0674	0.250	
?-Chloronaphthalene	U		0.0682	0.250	
(S) Nitrobenzene-d5	103			31.0-160	
(S) 2-Fluorobiphenyl	87.0			48.0-148	
(S) p-Terphenyl-d14	83.0			37.0-146	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3993679-1 10/27/23 11:14 • (LCSD) R3993679-2 10/27/23 11:31										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Anthracene	2.00	1.63	1.53	81.5	76.5	67.0-150			6.33	20
Acenaphthene	2.00	1.59	1.62	79.5	81.0	65.0-138			1.87	20
Acenaphthylene	2.00	1.64	1.67	82.0	83.5	66.0-140			1.81	20
Benzo(a)anthracene	2.00	1.74	1.70	87.0	85.0	61.0-140			2.33	20
Benzo(a)pyrene	2.00	1.67	1.67	83.5	83.5	60.0-143			0.000	20
enzo(b)fluoranthene	2.00	1.56	1.65	78.0	82.5	58.0-141			5.61	20
nzo(g,h,i)perylene	2.00	1.52	1.56	76.0	78.0	52.0-153			2.60	20
enzo(k)fluoranthene	2.00	1.63	1.56	81.5	78.0	58.0-148			4.39	20
hrysene	2.00	1.72	1.73	86.0	86.5	64.0-144			0.580	20
benz(a,h)anthracene	2.00	1.62	1.64	81.0	82.0	52.0-155			1.23	20
luoranthene	2.00	1.68	1.71	84.0	85.5	69.0-153			1.77	20

11/03/23 13:43











QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

L1670158-04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(I CS) R3993679-1	10/27/23 11:14	 (LCSD) R3993679-2 	10/27/23 11:31

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Fluorene	2.00	1.71	1.70	85.5	85.0	64.0-136			0.587	20
Indeno(1,2,3-cd)pyrene	2.00	1.74	1.79	87.0	89.5	54.0-153			2.83	20
Naphthalene	2.00	1.63	1.66	81.5	83.0	61.0-137			1.82	20
Phenanthrene	2.00	1.63	1.62	81.5	81.0	62.0-137			0.615	20
Pyrene	2.00	1.67	1.68	83.5	84.0	60.0-142			0.597	20
1-Methylnaphthalene	2.00	1.65	1.68	82.5	84.0	66.0-142			1.80	20
2-Methylnaphthalene	2.00	1.77	1.75	88.5	87.5	62.0-136			1.14	20
2-Chloronaphthalene	2.00	1.83	1.78	91.5	89.0	64.0-140			2.77	20
(S) Nitrobenzene-d5				108	99.0	31.0-160				
(S) 2-Fluorobiphenyl				90.0	86.5	48.0-148				
(S) p-Terphenyl-d14				81.5	78.5	37.0-146				





















SDG:

L1670158

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.























ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
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Georgia ¹	923	North Dakota	R-140
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Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto





















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Company Name/Address:			Billing Info	ormation:			T			Analysis	/ Conta	iner / Dr	eservative			Chain of Custon	d. 0 /
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Project Description: North North 40 Property		City/State Collected:	Senside	# Ore	Please C PT MT		NO3	HCI-E		1						Submitting a sample of constitutes acknowled Pace Terms and Cond	via this chain of custody dgment and acceptance of the
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* Matrix:	Remarks:														Sample	Receipt Ch	ecklist
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Pace Analytical® ANALYTICAL REPORT

November 09, 2023

Stantec Consulting - Portland, OR

L1671018 Sample Delivery Group:

Samples Received: 10/27/2023

Project Number: 185706185

Description: North North 40 Property

Report To: Stantec

601 SW 2nd Ave., Suite 1400

Portland, OR 97204

Entire Report Reviewed By:

Shane Gambill Project Manager

Hulill

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com



















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DATE/TIME:

11/09/23 09:31

PAGE:

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SAMPLE SUMMARY

NE CC 01 14674019 01 Air			Collected by	Collected date/time 10/23/23 14:55	Received da 10/27/23 09:	
NF-SG-01 L1671018-01 Air Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2164484	1	11/04/23 17:50	11/04/23 17:50	SDS	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG2162269	1	11/01/23 16:31	11/01/23 16:31	OK	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-SG-02 L1671018-02 Air				10/23/23 15:35	10/27/23 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2165442	5	11/07/23 02:17	11/07/23 02:17	JAP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG2162269	1	11/01/23 16:35	11/01/23 16:35	OK	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
NF-SG-03 L1671018-03 Air				10/23/23 16:20	10/27/23 09:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2165442	5	11/07/23 02:53	11/07/23 02:53	JAP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG2162269	1	11/01/23 16:37	11/01/23 16:37	OK	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-SG-DUP1 L1671018-04 Air				10/23/23 15:36	10/27/23 09:	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Organic Compounds (MS) by Method TO-15	WG2164484	1	11/04/23 19:14	11/04/23 19:14	SDS	Mt. Juliet, TN

WG2162269























Organic Compounds (GC) by Method ASTM 1946

11/01/23 16:41

11/01/23 16:41

OK

Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOQ) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Ss

















Volatile Organic Compounds (MS) by Method TO-15

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2164484	L1671018-04	Acetone

The same analyte is found in the associated blank.

Shane Gambill

Project Manager

Batch	Analyte	Lab Sample ID			
WG2164484	Ethanol	L1671018-04			
WG2165442	Ethanol	L1671018-03			

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2164484	(LCS) R3995918-1, L1671018-01, 04	Methyl Butyl Ketone

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2164484	(LCSD) R3995918-3, L1671018-01, 04	Methyl Butyl Ketone

DETECTION SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

			CAS#	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilutio n	Batch
Client ID	Lab Sample ID	Analyte			ppbv	ug/m3	ppbv	ug/m3			
NF-SG-01	L1671018-01	Acetone	67-64-1	58.10	1.25	2.97	26.8	63.7		1	WG216448
F-SG-01	L1671018-01	Benzene	71-43-2	78.10	0.200	0.639	0.451	1.44		1	WG216448
F-SG-01	L1671018-01	Carbon disulfide	75-15-0	76.10	0.200	0.622	0.327	1.02		1	WG216448
F-SG-01	L1671018-01	Ethanol	64-17-5	46.10	2.50	4.71	21.4	40.3		1	WG216448
F-SG-01	L1671018-01	Ethylbenzene	100-41-4	106	0.200	0.867	5.27	22.8		1	WG216448
IF-SG-01	L1671018-01	4-Ethyltoluene	622-96-8	120	0.200	0.982	0.213	1.05		1	WG216448
IF-SG-01	L1671018-01	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.337	1.89		1	WG216448
IF-SG-01	L1671018-01	Heptane	142-82-5	100	0.200	0.818	0.486	1.99		1	WG21644
IF-SG-01	L1671018-01	Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.371	1.82		1	WG21644
IF-SG-01	L1671018-01	Methylene Chloride	75-09-2	84.90	0.200	0.694	1.49	5.17		1	WG21644
IF-SG-01	L1671018-01	Methyl Butyl Ketone	591-78-6	100	1.25	5.11	4.51	18.4	<u>J3 J4</u>	1	WG21644
IF-SG-01	L1671018-01	2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	50.6	149		1	WG216448
IF-SG-01	L1671018-01	2-Propanol	67-63-0	60.10	1.25	3.07	6.07	14.9		1	WG216448
IF-SG-01	L1671018-01	Toluene	108-88-3	92.10	0.500	1.88	1.46	5.50		1	WG216448
IF-SG-01	L1671018-01	1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.668	3.28		1	WG216448
IF-SG-01	L1671018-01	1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.208	1.02		1	WG21644
IF-SG-01	L1671018-01	Xylenes, Total	1330-20-7	106.16	0.600	2.61	42.7	185		1	WG21644
IF-SG-01	L1671018-01	m&p-Xylene	1330-20-7	106	0.400	1.73	27.9	121		1	WG21644
IF-SG-01	L1671018-01	o-Xylene	95-47-6	106	0.200	0.867	14.8	64.2		1	WG21644
IF-SG-02	L1671018-02	Acetone	67-64-1	58.10	6.25	14.9	373	886		5	WG21654
IF-SG-02	L1671018-02	Benzene	71-43-2	78.10	1.00	3.19	2.48	7.92		5	WG21654
IF-SG-02	L1671018-02	trans-1,2-Dichloroethene		96.90	1.00	3.96	1.00	3.96		5	WG21654
F-SG-02	L1671018-02	Ethanol	64-17-5	46.10	12.5	23.6	81.5	154		5	WG21654
F-SG-02	L1671018-02	Ethylbenzene	100-41-4	106	1.00	4.34	23.2	101		5	WG21654
IF-SG-02	L1671018-02	Isopropylbenzene	98-82-8	120.20	1.00	4.92	1.38	6.78		5	WG21654
IF-SG-02	L1671018-02	Methylene Chloride	75-09-2	84.90	1.00	3.47	3.26	11.3		5	WG21654
IF-SG-02	L1671018-02	2-Butanone (MEK)	78-93-3	72.10	6.25	18.4	44.7	132		5	WG21654
IF-SG-02	L1671018-02	2-Propanol	67-63-0	60.10	6.25	15.4	9.27	22.8		5	WG21654
IF-SG-02	L1671018-02	Propene	115-07-1	42.10	6.25	10.8	9.15	15.8		5	WG21654
IF-SG-02	L1671018-02	1,2,4-Trimethylbenzene	95-63-6	120	1.00	4.91	1.15	5.64		5	WG21654
IF-SG-02	L1671018-02	Xylenes, Total	1330-20-7	106.16	3.00	13.0	204	886		5	WG21654
IF-SG-02	L1671018-02	m&p-Xylene	1330-20-7	106	2.00	8.67	139	603		5	WG21654
IF-SG-02	<u>L1671018-02</u>	o-Xylene	95-47-6	106	1.00	4.34	64.7	280		5	WG21654
IF-SG-03	L1671018-03	Acetone	67-64-1	58.10	6.25	14.9	32.8	77.9		5	WG21654
IF-SG-03	L1671018-03	Ethanol	64-17-5	46.10	12.5	23.6	13.7	25.8	B	5	WG21654
IF-SG-03	L1671018-03	2-Butanone (MEK)	78-93-3	72.10	6.25	18.4	56.3	166		5	WG21654
IF-SG-03	L1671018-03	Propene	115-07-1	42.10	6.25	10.8	10.8	18.6		5	WG21654
IF-SG-DUP1	L1671018-04	Acetone	67-64-1	58.10	1.25	2.97	355	844	<u>E</u>	1	WG216448
F-SG-DUP1	L1671018-04	Benzene		78.10	0.200	0.639	0.240	0.767		1	WG21644
F-SG-DUP1	L1671018-04	Ethanol	64-17-5	46.10	2.50	4.71	7.04	13.3	B	1	WG21644
F-SG-DUP1	L1671018-04	Ethylbenzene	100-41-4	106	0.200	0.867	24.8	108		1	WG216448
F-SG-DUP1	L1671018-04	4-Ethyltoluene	622-96-8	120	0.200	0.982	0.377	1.85		1	WG21644
F-SG-DUP1	L1671018-04	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.546	3.07		1	WG21644
IF-SG-DUP1	L1671018-04	Dichlorodifluoromethane		120.92	0.200	0.989	0.553	2.73		1	WG21644
IF-SG-DUP1	L1671018-04	1,1,2-Trichlorotrifluoroethane		187.40	0.200	1.53	0.495	3.79		1	WG21644
IF-SG-DUP1	L1671018-04	Heptane		100	0.200	0.818	1.11	4.54		1	WG21644
IF-SG-DUP1	L1671018-04	Isopropylbenzene	98-82-8	120.20	0.200	0.983	1.26	6.19		1	WG21644
IF-SG-DUP1	L1671018-04	2-Butanone (MEK)		72.10	1.25	3.69	44.4	131		1	WG21644
IF-SG-DUP1	L1671018-04	2-Propanol		60.10	1.25	3.07	3.24	7.96		1	WG21644
IF-SG-DUP1	L1671018-04	Toluene	108-88-3	92.10	0.500	1.88	0.978	3.68		1	WG21644
IF-SG-DUP1	L1671018-04	1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.27	6.23		1	WG21644
IF-SG-DUP1	L1671018-04	1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.567	2.78		1	WG21644
IF-SG-DUP1	L1671018-04	2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.304	1.42		1	WG21644
NF-SG-DUP1	L1671018-04	Xylenes, Total	1330-20-7	106.16	0.600	2.61	207	899		1	WG21644
NF-SG-DUP1	L1671018-04	m&p-Xylene	1330-20-7	106	0.400	1.73	137	594		1	WG21644
NF-SG-DUP1	L1671018-04	o-Xylene	95-47-6	106	0.200	0.867	69.6	302		1	WG21644





















Collected date/time: 10/23/23 14:55

SAMPLE RESULTS - 01

L1671018

Volatile Organic Co									
Analyto	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	<u>Batch</u>
Analyte	C7 C4 1	F0.10	ppbv	ug/m3	ppbv	ug/m3		1	WC21C4404
Acetone	67-64-1	58.10	1.25	2.97	26.8	63.7		1	WG2164484
Allyl chloride	107-05-1 71-43-2	76.53	0.200	0.626	ND 0.451	ND			WG2164484
Benzene Benzel Chloride		78.10	0.200	0.639	0.451	1.44		1	WG2164484
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2164484
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2164484
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2164484
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2164484
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2164484
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.327	1.02		1	WG2164484
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2164484
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2164484
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2164484
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2164484
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2164484
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2164484
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2164484
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2164484
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2164484
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2164484
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2164484
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2164484
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2164484
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2164484
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2164484
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2164484
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2164484
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2164484
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2164484
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2164484
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2164484
Ethanol	64-17-5	46.10	2.50	4.71	21.4	40.3		1	WG2164484
Ethylbenzene	100-41-4	106	0.200	0.867	5.27	22.8		1	WG2164484
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.213	1.05		1	WG2164484
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.337	1.89		1	WG2164484
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG2164484
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2164484
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2164484
Heptane	142-82-5	100	0.200	0.818	0.486	1.99		1	WG2164484
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2164484
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG2164484
Isopropylbenzene	98-82-8	120.20	0.200	0.983	0.371	1.82		1	WG2164484
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.49	5.17		1	WG2164484
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	4.51	18.4	<u>J3 J4</u>	1	WG2164484
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	50.6	149		1	WG2164484
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2164484
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2164484
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2164484
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2164484
2-Propanol	67-63-0	60.10	1.25	3.07	6.07	14.9		1	WG2164484
Propene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2164484
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2164484
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2164484
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2164484
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2164484
Toluene	108-88-3	92.10	0.500	1.88	1.46	5.50		1	WG2164484
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2164484



















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L1671018

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2164484
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2164484
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2164484
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.668	3.28		1	WG2164484
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.208	1.02		1	WG2164484
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG2164484
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2164484
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2164484
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2164484
Xylenes, Total	1330-20-7	106.16	0.600	2.61	42.7	185		1	WG2164484
m&p-Xylene	1330-20-7	106	0.400	1.73	27.9	121		1	WG2164484
o-Xylene	95-47-6	106	0.200	0.867	14.8	64.2		1	WG2164484
(S) 1.4-Bromofluorobenzene	460-00-4	175	60.0-140		106				WG2164484

Organic Compounds (GC) by Method ASTM 1946

	CAS#	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
Analyte			%	%			
Helium	7440-59-7		0.100	ND		1	WG2162269





















Collected date/time: 10/23/23 15:35

L1671018

Volatile Organic Compounds (MS) by Method TO-15

Volatile Organic Co		(IVIS) by	Method	10-15					
Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
•	67.64.1	EQ 10							WC216E442
Acetone	67-64-1	58.10	6.25	14.9	373	886 ND		5 5	WG2165442
Allyl chloride	107-05-1	76.53	1.00	3.13	ND	ND			WG2165442
Benzene Benzel Chloride	71-43-2	78.10	1.00	3.19	2.48	7.92		5 5	WG2165442
Benzyl Chloride	100-44-7	127	1.00	5.19	ND	ND			WG2165442
Bromodichloromethane	75-27-4	164	1.00	6.71	ND	ND		5	WG2165442
Bromoform	75-25-2	253	3.00	31.0	ND	ND		5	WG2165442
Bromomethane	74-83-9	94.90	1.00	3.88	ND	ND		5	WG2165442
1,3-Butadiene	106-99-0	54.10	10.0	22.1	ND	ND		5	WG2165442
Carbon disulfide	75-15-0	76.10	1.00	3.11	ND	ND		5	WG2165442
Carbon tetrachloride	56-23-5	154	1.00	6.30	ND	ND		5	WG2165442
Chlorobenzene	108-90-7	113	1.00	4.62	ND	ND		5	WG2165442
Chloroethane	75-00-3	64.50	1.00	2.64	ND	ND		5	WG2165442
Chloroform	67-66-3	119	1.00	4.87	ND	ND		5	WG2165442
Chloromethane	74-87-3	50.50	1.00	2.07	ND	ND		5	WG2165442
2-Chlorotoluene	95-49-8	126	1.00	5.15	ND	ND		5	WG2165442
Cyclohexane	110-82-7	84.20	1.00	3.44	ND	ND		5	WG2165442
Dibromochloromethane	124-48-1	208	1.00	8.51	ND	ND		5	WG2165442
1,2-Dibromoethane	106-93-4	188	1.00	7.69	ND	ND		5	WG2165442
1,2-Dichlorobenzene	95-50-1	147	1.00	6.01	ND	ND		5	WG2165442
1,3-Dichlorobenzene	541-73-1	147	1.00	6.01	ND	ND		5	WG2165442
1,4-Dichlorobenzene	106-46-7	147	1.00	6.01	ND	ND		5	WG2165442
1,2-Dichloroethane	107-06-2	99	1.00	4.05	ND	ND		5	WG2165442
1,1-Dichloroethane	75-34-3	98	1.00	4.01	ND	ND		5	WG2165442
1,1-Dichloroethene	75-35-4	96.90	1.00	3.96	ND	ND		5	WG2165442
cis-1,2-Dichloroethene	156-59-2	96.90	1.00	3.96	ND	ND		5	WG2165442
trans-1,2-Dichloroethene	156-60-5	96.90	1.00	3.96	1.00	3.96		5	WG2165442
1,2-Dichloropropane	78-87-5	113	1.00	4.62	ND	ND		5	WG2165442
cis-1,3-Dichloropropene	10061-01-5	111	1.00	4.54	ND	ND		5	WG2165442
trans-1,3-Dichloropropene	10061-02-6	111	1.00	4.54	ND	ND		5	WG2165442
1,4-Dioxane	123-91-1	88.10	3.15	11.4	ND	ND		5	WG2165442
Ethanol	64-17-5	46.10	12.5	23.6	81.5	154		5	WG2165442
Ethylbenzene	100-41-4	106	1.00	4.34	23.2	101		5	WG2165442
4-Ethyltoluene	622-96-8	120	1.00	4.91	ND	ND		5	WG2165442
Trichlorofluoromethane	75-69-4	137.40	1.00	5.62	ND	ND		5	WG2165442
Dichlorodifluoromethane	75-71-8	120.92	1.00	4.95	ND	ND		5	WG2165442
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.00	7.66	ND	ND		5	WG2165442
1,2-Dichlorotetrafluoroethane	76-14-2	171	1.00	6.99	ND	ND		5	WG2165442
Heptane	142-82-5	100	1.00	4.09	ND	ND		5	WG2165442
Hexachloro-1,3-butadiene	87-68-3	261	3.15	33.6	ND	ND		5	WG2165442
n-Hexane	110-54-3	86.20	3.15	11.1	ND	ND		5	WG2165442
Isopropylbenzene	98-82-8	120.20	1.00	4.92	1.38	6.78		5	WG2165442
Methylene Chloride	75-09-2	84.90	1.00	3.47	3.26	11.3		5	WG2165442
Methyl Butyl Ketone	591-78-6	100	6.25	25.6	ND	ND		5	WG2165442
2-Butanone (MEK)	78-93-3	72.10	6.25	18.4	44.7	132		5	WG2165442
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	6.25	25.6	ND	ND		5	WG2165442
Methyl methacrylate	80-62-6	100.12	1.00	4.09	ND	ND		5	WG2165442
MTBE	1634-04-4	88.10	1.00	3.60	ND	ND		5	WG2165442
Naphthalene	91-20-3	128	3.15	16.5	ND	ND		5	WG2165442
2-Propanol	67-63-0	60.10	6.25	15.4	9.27	22.8		5	WG2165442
Propene	115-07-1	42.10	6.25	10.8	9.15	15.8		5	WG2165442
Styrene	100-42-5	104	1.00	4.25	ND	ND		5	WG2165442
1,1,2,2-Tetrachloroethane	79-34-5	168	1.00	6.87	ND	ND		5	WG2165442
Tetrachloroethylene	127-18-4	166	1.00	6.79	ND	ND		5	WG2165442
Tetrahydrofuran	109-99-9	72.10	1.00	2.95	ND	ND		5	WG2165442
Toluene	108-88-3	92.10	2.50	9.42	ND	ND		5	WG2165442
1,2,4-Trichlorobenzene	120-82-1	181	3.15	23.3	ND	ND		5	WG2165442



















Collected date/time: 10/23/23 15:35

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	1.00	5.44	ND	ND		5	WG2165442
1,1,2-Trichloroethane	79-00-5	133	1.00	5.44	ND	ND		5	WG2165442
Trichloroethylene	79-01-6	131	1.00	5.36	ND	ND		5	WG2165442
1,2,4-Trimethylbenzene	95-63-6	120	1.00	4.91	1.15	5.64		5	WG2165442
1,3,5-Trimethylbenzene	108-67-8	120	1.00	4.91	ND	ND		5	WG2165442
2,2,4-Trimethylpentane	540-84-1	114.22	1.00	4.67	ND	ND		5	WG2165442
Vinyl chloride	75-01-4	62.50	1.00	2.56	ND	ND		5	WG2165442
Vinyl Bromide	593-60-2	106.95	1.00	4.37	ND	ND		5	WG2165442
Vinyl acetate	108-05-4	86.10	3.15	11.1	ND	ND		5	WG2165442
Xylenes, Total	1330-20-7	106.16	3.00	13.0	204	886		5	WG2165442
m&p-Xylene	1330-20-7	106	2.00	8.67	139	603		5	WG2165442
o-Xylene	95-47-6	106	1.00	4.34	64.7	280		5	WG2165442
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.3				WG2165442



	•							
		CAS#	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
Analyte				%	%			
Helium		7440-59-7		0.100	ND		1	WG2162269























Collected date/time: 10/23/23 16:20

V	'olatile	Organic	Compou	nds (MS)) bv Met	thod TO-15	

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
Acetone	67-64-1	58.10	6.25	14.9	32.8	77.9		5	WG2165442
Allyl chloride	107-05-1	76.53	1.00	3.13	ND	ND		5	WG2165442
Benzene	71-43-2	78.10	1.00	3.19	ND	ND		5	WG2165442
Benzyl Chloride	100-44-7	127	1.00	5.19	ND	ND		5	WG2165442
Bromodichloromethane	75-27-4	164	1.00	6.71	ND	ND		5	WG2165442
Bromoform	75-25-2	253	3.00	31.0	ND	ND		5	WG2165442
Bromomethane	74-83-9	94.90	1.00	3.88	ND	ND		5	WG2165442
1,3-Butadiene	106-99-0	54.10	10.0	22.1	ND	ND		5	WG2165442
Carbon disulfide	75-15-0	76.10	1.00	3.11	ND	ND		5	WG2165442
Carbon tetrachloride	56-23-5	154	1.00	6.30	ND	ND		5	WG2165442
Chlorobenzene	108-90-7	113	1.00	4.62	ND	ND		5	WG2165442
Chloroethane	75-00-3	64.50	1.00	2.64	ND	ND		5	WG2165442
Chloroform	67-66-3	119	1.00	4.87	ND	ND		5	WG2165442
Chloromethane	74-87-3	50.50	1.00	2.07	ND	ND		5	WG2165442
2-Chlorotoluene	95-49-8	126	1.00	5.15	ND	ND		5	WG2165442
Cyclohexane	110-82-7	84.20	1.00	3.44	ND	ND		5	WG2165442
Dibromochloromethane	124-48-1	208	1.00	8.51	ND	ND		5	WG2165442
1,2-Dibromoethane	106-93-4	188	1.00	7.69	ND	ND		5	WG2165442
1,2-Dichlorobenzene	95-50-1	147	1.00	6.01	ND	ND		5	WG2165442
1,3-Dichlorobenzene	541-73-1	147	1.00	6.01	ND	ND		5	WG2165442
1,4-Dichlorobenzene	106-46-7	147	1.00	6.01	ND	ND		5	WG2165442
1,2-Dichloroethane	107-06-2	99	1.00	4.05	ND	ND		5	WG2165442
1,1-Dichloroethane	75-34-3	98	1.00	4.01	ND	ND		5	WG2165442
1,1-Dichloroethene	75-35-4	96.90	1.00	3.96	ND	ND		5	WG2165442
cis-1,2-Dichloroethene	156-59-2	96.90	1.00	3.96	ND	ND		5	WG2165442
trans-1,2-Dichloroethene	156-60-5	96.90	1.00	3.96	ND	ND		5	WG2165442
1,2-Dichloropropane	78-87-5	113	1.00	4.62	ND	ND		5	WG2165442
cis-1,3-Dichloropropene	10061-01-5	111	1.00	4.54	ND	ND		5	WG2165442
trans-1,3-Dichloropropene	10061-02-6	111	1.00	4.54	ND	ND		5	WG2165442
1,4-Dioxane	123-91-1	88.10	3.15	11.4	ND	ND		5	WG2165442
Ethanol	64-17-5	46.10	12.5	23.6	13.7	25.8	<u>B</u>	5	WG2165442
Ethylbenzene	100-41-4	106	1.00	4.34	ND	ND	<u>=</u>	5	WG2165442
4-Ethyltoluene	622-96-8	120	1.00	4.91	ND	ND		5	WG2165442
Trichlorofluoromethane	75-69-4	137.40	1.00	5.62	ND	ND		5	WG2165442
Dichlorodifluoromethane	75-09- 4 75-71-8	120.92	1.00	4.95	ND	ND		5	WG2165442 WG2165442
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	1.00	7.66	ND	ND		5	WG2165442 WG2165442
1,2-Dichlorotetrafluoroethane	76-13-1	171	1.00	6.99	ND	ND		5	WG2165442 WG2165442
	142-82-5	100	1.00	4.09	ND ND	ND ND		5	WG2165442 WG2165442
Heptane Hexachloro-1,3-butadiene	87-68-3		3.15		ND	ND		5	
		261		33.6				5	WG2165442
n-Hexane	110-54-3	86.20	3.15	11.1	ND	ND			WG2165442
Isopropylbenzene	98-82-8	120.20	1.00	4.92	ND	ND		5 5	WG2165442
Methylene Chloride	75-09-2	84.90	1.00	3.47	ND	ND			WG2165442
Methyl Butyl Ketone	591-78-6	100	6.25	25.6	ND 50.2	ND		5	WG2165442
2-Butanone (MEK)	78-93-3	72.10	6.25	18.4	56.3	166 NB		5	WG2165442
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	6.25	25.6	ND	ND		5	WG2165442
Methyl methacrylate	80-62-6	100.12	1.00	4.09	ND	ND		5	WG2165442
MTBE	1634-04-4	88.10	1.00	3.60	ND	ND		5	WG2165442
Naphthalene	91-20-3	128	3.15	16.5	ND	ND		5	WG2165442
2-Propanol	67-63-0	60.10	6.25	15.4	ND	ND		5	WG2165442
Propene	115-07-1	42.10	6.25	10.8	10.8	18.6		5	WG2165442
Styrene	100-42-5	104	1.00	4.25	ND	ND		5	WG2165442
1,1,2,2-Tetrachloroethane	79-34-5	168	1.00	6.87	ND	ND		5	WG2165442
Tetrachloroethylene	127-18-4	166	1.00	6.79	ND	ND		5	WG2165442
Tetrahydrofuran	109-99-9	72.10	1.00	2.95	ND	ND		5	WG2165442
Toluene	108-88-3	92.10	2.50	9.42	ND	ND		5	WG2165442
1,2,4-Trichlorobenzene	120-82-1	181	3.15	23.3	ND	ND		5	WG2165442





















Collected date/time: 10/23/23 16:20

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	1.00	5.44	ND	ND		5	WG2165442
1,1,2-Trichloroethane	79-00-5	133	1.00	5.44	ND	ND		5	WG2165442
Trichloroethylene	79-01-6	131	1.00	5.36	ND	ND		5	WG2165442
1,2,4-Trimethylbenzene	95-63-6	120	1.00	4.91	ND	ND		5	WG2165442
1,3,5-Trimethylbenzene	108-67-8	120	1.00	4.91	ND	ND		5	WG2165442
2,2,4-Trimethylpentane	540-84-1	114.22	1.00	4.67	ND	ND		5	WG2165442
Vinyl chloride	75-01-4	62.50	1.00	2.56	ND	ND		5	WG2165442
Vinyl Bromide	593-60-2	106.95	1.00	4.37	ND	ND		5	WG2165442
Vinyl acetate	108-05-4	86.10	3.15	11.1	ND	ND		5	WG2165442
Xylenes, Total	1330-20-7	106.16	3.00	13.0	ND	ND		5	WG2165442
m&p-Xylene	1330-20-7	106	2.00	8.67	ND	ND		5	WG2165442
o-Xylene	95-47-6	106	1.00	4.34	ND	ND		5	WG2165442
(S) 1.4-Bromofluorobenzene	460-00-4	175	60.0-140		99.0				WG2165442

Organic Compounds (GC) by Method ASTM 1946

	•							
		CAS#	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
Analyte				%	%			
Helium		7440-59-7		0.100	ND		1	WG2162269





















Collected date/time: 10/23/23 15:36

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte	J. 13 II	OI. W.L.	ppbv	ug/m3	ppbv	ug/m3	Guainici	Silution	<u> </u>
Acetone	67-64-1	58.10	1.25	2.97	355	844		1	WG2164484
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND	<u>E</u>	1	WG2164484
•	71-43-2	78.10	0.200	0.639	0.240	0.767		1	
Benzene Benzene									WG2164484
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2164484
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2164484
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2164484
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2164484
,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2164484
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG2164484
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2164484
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2164484
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2164484
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2164484
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG2164484
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2164484
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG2164484
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2164484
,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2164484
,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2164484
,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2164484
,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2164484
,	107-06-2	99	0.200		ND ND	ND		1	
,2-Dichloroethane				0.810					WG2164484
,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2164484
,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2164484
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG2164484
rans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2164484
,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2164484
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2164484
rans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2164484
,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2164484
Ethanol	64-17-5	46.10	2.50	4.71	7.04	13.3	<u>B</u>	1	WG2164484
thylbenzene	100-41-4	106	0.200	0.867	24.8	108		1	WG2164484
1-Ethyltoluene	622-96-8	120	0.200	0.982	0.377	1.85		1	WG2164484
richlorofluoromethane	75-69-4	137.40	0.200	1.12	0.546	3.07		1	WG2164484
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.553	2.73		1	WG2164484
,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	0.495	3.79		1	WG2164484
,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2164484
Heptane	142-82-5	100	0.200	0.818	1.11	4.54		1	WG2164484
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	4.54 ND		1	WG2164484
,			0.630	2.22	ND ND	ND ND		1	
n-Hexane	110-54-3	86.20							WG2164484
sopropylbenzene Acthylona Chlorida	98-82-8	120.20	0.200	0.983	1.26	6.19		1	WG2164484
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND	10.14	1	WG2164484
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND	<u>J3 J4</u>	1	WG2164484
-Butanone (MEK)	78-93-3	72.10	1.25	3.69	44.4	131		1	WG2164484
-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2164484
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2164484
NTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2164484
laphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2164484
-Propanol	67-63-0	60.10	1.25	3.07	3.24	7.96		1	WG2164484
ropene	115-07-1	42.10	1.25	2.15	ND	ND		1	WG2164484
tyrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2164484
1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2164484
etrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2164484
etrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2164484
oluene	109-99-9	92.10	0.500	1.88	0.978	3.68		1	WG2164484
	10.00-00)	JZ.IU	0.500	1.00	0.370	J.U0		1	TOTTUL JUTTUT

















Collected date/time: 10/23/23 15:36

L1671018

Volatile Organic Compounds (MS) by Method TO-15

	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
Analyte			ppbv	ug/m3	ppbv	ug/m3			
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2164484
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2164484
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG2164484
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.27	6.23		1	WG2164484
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.567	2.78		1	WG2164484
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.304	1.42		1	WG2164484
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2164484
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2164484
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2164484
Xylenes, Total	1330-20-7	106.16	0.600	2.61	207	899		1	WG2164484
m&p-Xylene	1330-20-7	106	0.400	1.73	137	594		1	WG2164484
o-Xylene	95-47-6	106	0.200	0.867	69.6	302		1	WG2164484
(S) 1.4-Bromofluorobenzene	460-00-4	175	60.0-140		112				WG2164484

Organic Compounds (GC) by Method ASTM 1946

	CAS#	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
Analyte			%	%			
Helium	7440-59-7		0.100	ND		1	WG2162269























L1671018-01,04

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R3995918-2 11/04/23	3 09:41				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Acetone	U		0.584	1.25	
Allyl chloride	U		0.114	0.200	
Benzene	U		0.0715	0.200	
Benzyl Chloride	U		0.0598	0.200	
Bromodichloromethane	U		0.0702	0.200	
Bromoform	U		0.0732	0.600	
Bromomethane	U		0.0982	0.200	
1,3-Butadiene	U		0.104	2.00	
Carbon disulfide	U		0.102	0.200	
Carbon tetrachloride	U		0.0732	0.200	
Chlorobenzene	U		0.0832	0.200	
Chloroethane	U		0.0996	0.200	
Chloroform	U		0.0717	0.200	
Chloromethane	U		0.103	0.200	
2-Chlorotoluene	U		0.0828	0.200	
Cyclohexane	U		0.0753	0.200	
Dibromochloromethane	U		0.0727	0.200	
1,2-Dibromoethane	U		0.0721	0.200	
1,2-Dichlorobenzene	U		0.128	0.200	
1,3-Dichlorobenzene	U		0.182	0.200	
1,4-Dichlorobenzene	U		0.0557	0.200	
1,2-Dichloroethane	U		0.0700	0.200	
1,1-Dichloroethane	U		0.0723	0.200	
1,1-Dichloroethene	U		0.0762	0.200	
cis-1,2-Dichloroethene	U		0.0784	0.200	
trans-1,2-Dichloroethene	U		0.0673	0.200	
1,2-Dichloropropane	U		0.0760	0.200	
cis-1,3-Dichloropropene	U		0.0689	0.200	
trans-1,3-Dichloropropene	U		0.0728	0.200	
1,4-Dioxane	U		0.0833	0.630	
Ethanol	1.29	<u>J</u>	0.265	2.50	
Ethylbenzene	U		0.0835	0.200	
4-Ethyltoluene	U		0.0783	0.200	
Trichlorofluoromethane	U		0.0819	0.200	
Dichlorodifluoromethane	U		0.137	0.200	
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200	
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200	
Heptane	U		0.104	0.200	
Hexachloro-1,3-butadiene	U		0.105	0.630	
n-Hexane	U		0.206	0.630	

WG2164484

QUALITY CONTROL SUMMARY

L1671018-01,04

Volatile Organic Compounds (MS) by Method TO-15

Method Blank (MB)

(MB) R3995918-2 11/04/23	3 09:41				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Isopropylbenzene	U		0.0777	0.200	
Methylene Chloride	U		0.0979	0.200	
Methyl Butyl Ketone	U		0.133	1.25	
2-Butanone (MEK)	U		0.0814	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25	
Methyl methacrylate	U		0.0876	0.200	
MTBE	U		0.0647	0.200	
Naphthalene	U		0.350	0.630	
2-Propanol	U		0.264	1.25	
Propene	U		0.0932	1.25	
Styrene	U		0.0788	0.200	
1,1,2,2-Tetrachloroethane	U		0.0743	0.200	
Tetrachloroethylene	U		0.0814	0.200	
Tetrahydrofuran	U		0.0734	0.200	
Toluene	U		0.0870	0.500	
1,2,4-Trichlorobenzene	U		0.148	0.630	
1,1,1-Trichloroethane	U		0.0736	0.200	
1,1,2-Trichloroethane	U		0.0775	0.200	
Trichloroethylene	U		0.0680	0.200	
1,2,4-Trimethylbenzene	U		0.0764	0.200	
1,3,5-Trimethylbenzene	U		0.0779	0.200	
2,2,4-Trimethylpentane	U		0.133	0.200	
Vinyl chloride	U		0.0949	0.200	
Vinyl Bromide	U		0.0852	0.200	
Vinyl acetate	U		0.116	0.630	
Xylenes, Total	U		0.135	0.600	
m&p-Xylene	U		0.135	0.400	
o-Xylene	U		0.0828	0.200	
(S) 1,4-Bromofluorobenzene	96.8			60.0-140	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	3.84	3.85	102	103	70.0-130			0.260	25
Allyl chloride	3.75	3.37	3.45	89.9	92.0	70.0-130			2.35	25
Benzene	3.75	3.67	3.72	97.9	99.2	70.0-130			1.35	25
Benzyl Chloride	3.75	3.87	3.82	103	102	70.0-152			1.30	25

Тс

Ss

Cn

Ds

Sr

Qc

Ğl

Al

Sc

Volatile Organic Compounds (MS) by Method TO-15

3.75

3.70

2-Butanone (MEK)

L1671018-01,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3995918-1 11/04/23 08:44 • (LCSD) R3995918-3 11/04/23 10:14 **RPD Limits** Spike Amount LCS Result LCSD Result LCS Rec. LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier RPD Analyte % % % % % ppbv vdaa vdaa 3.75 4.01 4.08 107 109 70.0-130 1.73 25 Bromodichloromethane 3.75 116 115 70.0-130 0.462 25 Bromoform 4.34 4.32 Bromomethane 3.75 3.89 3.92 104 105 70.0-130 0.768 25 3.75 96.0 97.1 70.0-130 1.10 25 1,3-Butadiene 3.60 3.64 3.75 98.4 70.0-130 2.94 25 Carbon disulfide 3.69 3.80 101 3.75 4.07 109 110 70.0-130 1.71 25 Carbon tetrachloride 4.14 3.75 3.90 104 102 70.0-130 1.55 25 Chlorobenzene 3.84 Chloroethane 3.75 3.76 3.77 100 101 70.0-130 0.266 25 3.75 70.0-130 0.512 25 Chloroform 3.90 3.92 104 105 25 Chloromethane 3.75 3.46 3.55 92.3 94.7 70.0-130 2.57 25 2-Chlorotoluene 3.75 3.86 3.86 103 103 70.0-130 0.000 25 3.75 Cyclohexane 3.54 3.62 94.4 96.5 70.0-130 2.23 Dibromochloromethane 3.75 4.23 4.22 113 113 70.0-130 0.237 25 3.75 103 25 1,2-Dibromoethane 3.88 3.94 105 70.0-130 1.53 70.0-130 0.252 25 1,2-Dichlorobenzene 3.75 3.96 3.97 106 106 1,3-Dichlorobenzene 3.75 4.04 4.09 108 109 70.0-130 1.23 25 70.0-130 0.501 25 1,4-Dichlorobenzene 3.75 4.00 3.98 107 106 1,2-Dichloroethane 3.75 3.97 4.05 106 108 70.0-130 2.00 25 25 1,1-Dichloroethane 3.75 3.85 3.90 103 104 70.0-130 1.29 3.75 3.77 3.84 101 102 70.0-130 1.84 25 1,1-Dichloroethene 25 cis-1,2-Dichloroethene 3.75 3.82 3.79 102 101 70.0-130 0.788 3.75 3.74 3.75 99.7 100 70.0-130 0.267 25 trans-1,2-Dichloroethene 1,2-Dichloropropane 3.75 3.76 3.78 100 101 70.0-130 0.531 25 3.75 3.81 3.87 102 103 70.0-130 1.56 25 cis-1,3-Dichloropropene 25 trans-1,3-Dichloropropene 3.75 3.82 3.79 102 101 70.0-130 0.788 3.75 4.21 4.36 112 116 70.0-140 3.50 25 1,4-Dioxane 25 Ethanol 3.75 3.52 3.64 93.9 97.1 55.0-148 3.35 Ethylbenzene 3.75 3.78 3.77 101 101 70.0-130 0.265 25 25 4-Ethyltoluene 3.75 3.97 3.99 106 106 70.0-130 0.503 3.75 3.99 4.07 106 109 70.0-130 1.99 25 Trichlorofluoromethane 107 25 Dichlorodifluoromethane 3.75 3.92 4.01 105 64.0-139 2.27 25 3.75 3.92 3.97 105 106 70.0-130 1.27 1,1,2-Trichlorotrifluoroethane 1,2-Dichlorotetrafluoroethane 3.75 3.88 3.85 103 103 70.0-130 0.776 25 3.75 3.57 95.2 95.2 70.0-130 0.000 25 Heptane 3.57 Hexachloro-1,3-butadiene 3.75 3.70 3.70 98.7 98.7 70.0-151 0.000 25 25 3.65 3.70 97.3 98.7 70.0-130 1.36 n-Hexane 3.75 3.75 3.88 3.91 103 70.0-130 0.770 25 Isopropylbenzene 104 70.0-130 25 Methylene Chloride 3.75 3.56 3.65 94.9 97.3 2.50 3.75 2.45 65.3 92.0 <u>J3</u> 33.9 25 Methyl Butyl Ketone 3.45 70.0-149 <u>J4</u>

70.0-130

5.26

25

98.7

3.90

104

Volatile Organic Compounds (MS) by Method TO-15

L1671018-01,04

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3995918-1 11/04/23 08:44 • (LCSD) R3995918-3 11/04/23 10:14

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
4-Methyl-2-pentanone (MIBK)	3.75	3.80	3.83	101	102	70.0-139			0.786	25	
Methyl methacrylate	3.75	3.63	3.69	96.8	98.4	70.0-130			1.64	25	
MTBE	3.75	3.65	3.76	97.3	100	70.0-130			2.97	25	
Naphthalene	3.75	3.60	3.71	96.0	98.9	70.0-159			3.01	25	
2-Propanol	3.75	3.47	3.54	92.5	94.4	70.0-139			2.00	25	
Propene	3.75	3.46	3.44	92.3	91.7	64.0-144			0.580	25	
Styrene	3.75	3.94	3.89	105	104	70.0-130			1.28	25	
1,1,2,2-Tetrachloroethane	3.75	3.93	3.94	105	105	70.0-130			0.254	25	
Tetrachloroethylene	3.75	4.07	4.03	109	107	70.0-130			0.988	25	
Tetrahydrofuran	3.75	3.33	3.41	88.8	90.9	70.0-137			2.37	25	
Toluene	3.75	3.72	3.66	99.2	97.6	70.0-130			1.63	25	
1,2,4-Trichlorobenzene	3.75	3.66	3.69	97.6	98.4	70.0-160			0.816	25	
1,1,1-Trichloroethane	3.75	3.98	4.07	106	109	70.0-130			2.24	25	
1,1,2-Trichloroethane	3.75	3.96	3.96	106	106	70.0-130			0.000	25	
Trichloroethylene	3.75	3.92	3.85	105	103	70.0-130			1.80	25	
1,2,4-Trimethylbenzene	3.75	3.89	3.95	104	105	70.0-130			1.53	25	
1,3,5-Trimethylbenzene	3.75	3.85	3.90	103	104	70.0-130			1.29	25	
2,2,4-Trimethylpentane	3.75	3.74	3.78	99.7	101	70.0-130			1.06	25	
Vinyl chloride	3.75	3.66	3.66	97.6	97.6	70.0-130			0.000	25	
Vinyl Bromide	3.75	3.99	3.91	106	104	70.0-130			2.03	25	
Vinyl acetate	3.75	3.40	3.28	90.7	87.5	70.0-130			3.59	25	
Xylenes, Total	11.3	11.8	11.8	104	104	70.0-130			0.000	25	
m&p-Xylene	7.50	7.86	7.87	105	105	70.0-130			0.127	25	
o-Xylene	3.75	3.94	3.91	105	104	70.0-130			0.764	25	

60.0-140























(S) 1,4-Bromofluorobenzene

101

99.8

L1671018-02,03

Method Blank (MB)

Volatile Organic Compounds (MS) by Method TO-15

(MB) R3996980-1 11/06/23	3 10:33				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Acetone	U		0.584	1.25	
llyl chloride	U		0.114	0.200	
enzene	U		0.0715	0.200	
enzyl Chloride	U		0.0598	0.200	
romodichloromethane	U		0.0702	0.200	
romoform	U		0.0732	0.600	
romomethane	U		0.0982	0.200	
3-Butadiene	U		0.104	2.00	
arbon disulfide	U		0.102	0.200	
Carbon tetrachloride	U		0.0732	0.200	
hlorobenzene	U		0.0832	0.200	
hloroethane	U		0.0996	0.200	
nloroform	U		0.0717	0.200	
nloromethane	U		0.103	0.200	
Chlorotoluene	U		0.0828	0.200	
clohexane	U		0.0753	0.200	
bromochloromethane	U		0.0727	0.200	
2-Dibromoethane	U		0.0721	0.200	
2-Dichlorobenzene	U		0.128	0.200	
B-Dichlorobenzene	U		0.182	0.200	
4-Dichlorobenzene	U		0.0557	0.200	
2-Dichloroethane	U		0.0700	0.200	
1-Dichloroethane	U		0.0723	0.200	
I-Dichloroethene	U		0.0762	0.200	
s-1,2-Dichloroethene	U		0.0784	0.200	
ans-1,2-Dichloroethene	U		0.0673	0.200	
2-Dichloropropane	U		0.0760	0.200	
s-1,3-Dichloropropene	U		0.0689	0.200	
ans-1,3-Dichloropropene	U		0.0728	0.200	
4-Dioxane	U		0.0833	0.630	
hanol	0.312	<u>J</u>	0.265	2.50	
hylbenzene	U	_	0.0835	0.200	
Ethyltoluene	U		0.0783	0.200	
ichlorofluoromethane	U		0.0819	0.200	
chlorodifluoromethane	U		0.137	0.200	
,2-Trichlorotrifluoroethane	U		0.0793	0.200	
2-Dichlorotetrafluoroethane	U		0.0890	0.200	
eptane	U		0.104	0.200	
lexachloro-1,3-butadiene	U		0.105	0.630	
n-Hexane	U		0.206	0.630	

WG2165442

QUALITY CONTROL SUMMARY

Volatile Organic Compounds (MS) by Method TO-15

L1671018-02,03

Method Blank (MB)

(MB) R3996980-1 11/06/23	3 10:33				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ppbv		ppbv	ppbv	
Isopropylbenzene	U		0.0777	0.200	
Methylene Chloride	U		0.0979	0.200	
Methyl Butyl Ketone	U		0.133	1.25	
2-Butanone (MEK)	U		0.0814	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25	
Methyl methacrylate	U		0.0876	0.200	
MTBE	U		0.0647	0.200	
Naphthalene	U		0.350	0.630	
2-Propanol	U		0.264	1.25	
Propene	U		0.0932	1.25	
Styrene	U		0.0788	0.200	
1,1,2,2-Tetrachloroethane	U		0.0743	0.200	
Tetrachloroethylene	U		0.0814	0.200	
Tetrahydrofuran	U		0.0734	0.200	
Toluene	U		0.0870	0.500	
1,2,4-Trichlorobenzene	U		0.148	0.630	
1,1,1-Trichloroethane	U		0.0736	0.200	
1,1,2-Trichloroethane	U		0.0775	0.200	
Trichloroethylene	U		0.0680	0.200	
1,2,4-Trimethylbenzene	U		0.0764	0.200	
1,3,5-Trimethylbenzene	U		0.0779	0.200	
2,2,4-Trimethylpentane	U		0.133	0.200	
Vinyl chloride	U		0.0949	0.200	
Vinyl Bromide	U		0.0852	0.200	
Vinyl acetate	U		0.116	0.630	
Xylenes, Total	U		0.135	0.600	
m&p-Xylene	U		0.135	0.400	
o-Xylene	U		0.0828	0.200	
(S) 1,4-Bromofluorobenzene	97.4			60.0-140	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996980-2 11/06/	23 12:01 • (LCSL)) R3996980-	3 11/06/23 12:4	1						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%
Acetone	3.75	4.11	4.15	110	111	70.0-130			0.969	25
Allyl chloride	3.75	4.55	4.38	121	117	70.0-130			3.81	25
Benzene	3.75	4.07	4.11	109	110	70.0-130			0.978	25
Benzyl Chloride	3.75	4.65	4.71	124	126	70.0-152			1.28	25

Volatile Organic Compounds (MS) by Method TO-15

L1671018-02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996980-2 11/06/2	•	·									
Analista	Spike Amount		LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
Bromodichloromethane	3.75	4.23	4.27	113	114	70.0-130			0.941	25	
Bromoform	3.75	4.28	4.33	114	115	70.0-130			1.16	25	
Bromomethane	3.75	4.08	4.07	109	109	70.0-130			0.245	25	
1,3-Butadiene	3.75	4.05	4.20	108	112	70.0-130			3.64	25	
Carbon disulfide	3.75	4.19	4.26	112	114	70.0-130			1.66	25	
Carbon tetrachloride	3.75	4.30	4.37	115	117	70.0-130			1.61	25	
Chlorobenzene	3.75	4.36	4.46	116	119	70.0-130			2.27	25	
Chloroethane	3.75	4.27	4.32	114	115	70.0-130			1.16	25	
Chloroform	3.75	4.26	4.33	114	115	70.0-130			1.63	25	
Chloromethane	3.75	4.41	4.49	118	120	70.0-130			1.80	25	
2-Chlorotoluene	3.75	4.40	4.49	117	120	70.0-130			2.02	25	
Cyclohexane	3.75	4.14	4.27	110	114	70.0-130			3.09	25	
Dibromochloromethane	3.75	4.25	4.37	113	117	70.0-130			2.78	25	
I,2-Dibromoethane	3.75	4.37	4.46	117	119	70.0-130			2.04	25	
l,2-Dichlorobenzene	3.75	4.42	4.50	118	120	70.0-130			1.79	25	
,3-Dichlorobenzene	3.75	4.52	4.59	121	122	70.0-130			1.54	25	
l,4-Dichlorobenzene	3.75	4.51	4.60	120	123	70.0-130			1.98	25	
l,2-Dichloroethane	3.75	4.22	4.25	113	113	70.0-130			0.708	25	
I,1-Dichloroethane	3.75	4.29	4.37	114	117	70.0-130			1.85	25	
I,1-Dichloroethene	3.75	4.32	4.41	115	118	70.0-130			2.06	25	
cis-1,2-Dichloroethene	3.75	4.33	4.33	115	115	70.0-130			0.000	25	
trans-1,2-Dichloroethene	3.75	4.39	4.38	117	117	70.0-130			0.228	25	
1,2-Dichloropropane	3.75	4.16	4.19	111	112	70.0-130			0.719	25	
cis-1,3-Dichloropropene	3.75	4.29	4.38	114	117	70.0-130			2.08	25	
trans-1,3-Dichloropropene	3.75	4.31	4.36	115	116	70.0-130			1.15	25	
1,4-Dioxane	3.75	4.21	4.30	112	115	70.0-140			2.12	25	
Ethanol	3.75	4.09	4.22	109	113	55.0-148			3.13	25	
Ethylbenzene	3.75	4.51	4.62	120	123	70.0-130			2.41	25	
1-Ethyltoluene	3.75	4.48	4.56	119	122	70.0-130			1.77	25	
Frichlorofluoromethane	3.75	4.26	4.29	114	114	70.0-130			0.702	25	
Dichlorodifluoromethane	3.75	4.06	4.11	108	110	64.0-139			1.22	25	
I,1,2-Trichlorotrifluoroethane	3.75	4.20	4.27	112	114	70.0-130			1.65	25	
,2-Dichlorotetrafluoroethane	3.75	4.29	4.32	114	115	70.0-130			0.697	25	
leptane	3.75	4.24	4.31	113	115	70.0-130			1.64	25	
Hexachloro-1,3-butadiene	3.75	4.04	4.73	108	126	70.0-151			15.7	25	
n-Hexane	3.75	4.24	4.30	113	115	70.0-130			1.41	25	
sopropylbenzene	3.75	4.44	4.55	118	121	70.0-130			2.45	25	
Methylene Chloride	3.75	4.05	4.13	108	110	70.0-130			1.96	25	
Methyl Butyl Ketone	3.75	4.03	4.13	114	115	70.0-130			0.697	25	
2-Butanone (MEK)	3.75	4.29	4.52	122	121	70.0-149			0.659	25	

Volatile Organic Compounds (MS) by Method TO-15

L1671018-02,03

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3996980-2 11/06/23 12:01 • (LCSD) R3996980-3 11/06/23 12:41

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ppbv	ppbv	ppbv	%	%	%			%	%	
4-Methyl-2-pentanone (MIBK)	3.75	4.49	4.54	120	121	70.0-139			1.11	25	
Methyl methacrylate	3.75	4.32	4.39	115	117	70.0-130			1.61	25	
MTBE	3.75	4.30	4.33	115	115	70.0-130			0.695	25	
Naphthalene	3.75	4.21	5.06	112	135	70.0-159			18.3	25	
2-Propanol	3.75	3.90	4.00	104	107	70.0-139			2.53	25	
Propene	3.75	4.31	4.34	115	116	64.0-144			0.694	25	
Styrene	3.75	4.44	4.54	118	121	70.0-130			2.23	25	
1,1,2,2-Tetrachloroethane	3.75	4.39	4.54	117	121	70.0-130			3.36	25	
Tetrachloroethylene	3.75	4.05	4.15	108	111	70.0-130			2.44	25	
Tetrahydrofuran	3.75	4.36	4.38	116	117	70.0-137			0.458	25	
Toluene	3.75	4.13	4.24	110	113	70.0-130			2.63	25	
1,2,4-Trichlorobenzene	3.75	4.10	4.85	109	129	70.0-160			16.8	25	
1,1,1-Trichloroethane	3.75	4.22	4.25	113	113	70.0-130			0.708	25	
1,1,2-Trichloroethane	3.75	4.25	4.20	113	112	70.0-130			1.18	25	
Trichloroethylene	3.75	4.10	4.24	109	113	70.0-130			3.36	25	
1,2,4-Trimethylbenzene	3.75	4.49	4.57	120	122	70.0-130			1.77	25	
1,3,5-Trimethylbenzene	3.75	4.52	4.64	121	124	70.0-130			2.62	25	
2,2,4-Trimethylpentane	3.75	4.30	4.39	115	117	70.0-130			2.07	25	
Vinyl chloride	3.75	4.09	4.18	109	111	70.0-130			2.18	25	
Vinyl Bromide	3.75	4.24	4.33	113	115	70.0-130			2.10	25	
Vinyl acetate	3.75	4.12	3.94	110	105	70.0-130			4.47	25	
Xylenes, Total	11.3	13.2	13.5	117	119	70.0-130			2.25	25	
m&p-Xylene	7.50	8.86	9.06	118	121	70.0-130			2.23	25	
o-Xylene	3.75	4.32	4.41	115	118	70.0-130			2.06	25	

60.0-140























(S) 1,4-Bromofluorobenzene

99.2

99.1

Organic Compounds (GC) by Method ASTM 1946

L1671018-01,02,03,04

Method Blank (MB)

(MB) R3994143-3 11/0	1/23 15:43			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Helium	U		0.0259	0.100

²Tc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3994143-1 11/01/2	23 15:38 • (LCSD)	R3994143-2	11/01/23 15:40							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	%	%	%	%	%	%			%	%
Holium	2.50	2.54	2 77	102	111	70 O 130			8 66	25















GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

, 10 0 1 0 1 1 d 1 1 0 1 1 0 d 1 1 1	
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
-----------	-------------

В	The same analyte is found in the associated blank.
Е	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Ср





















ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto





















^{*} Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Pace* Location Requested (City/State):			Custody is a LEC	AL DOCUMEN	T - Complet	quest Do	cument fields				LAB	USE ONLY- A	Hip		D028		
Stantec Consulting - Portland, C	OR	Contact/Repo	ort To: Star	itec													
Street Address: 601 SW 2nd Ave., Suite 1400		Phone #:	503-297-	1631			-										
Portland, OR 97204		E-Mail: kir	k.warner@s	tantec.com	1			1	200		Conn C	D and 6	40.00				
City, State Zip:		Cc E-Mail:							自認致		Scan C	R code fo	rınstru	ctions			
Customer Project #: 185706185		Invoice to:				-	+										
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Site Collection Info/Facility ID (as applicable): SECORTOR-185706185		Purchase Order # (if applicable):						1					A	nalyses	Requested	1/67/01	
B		Quote #:							Fie	ld Informatio	n		-	1		Proj. Manager:	
Time Zone Collected: [] AK [(] PT)] MT [] CT [] ET			State origin of sample(s): Sea Side Ove Sin													546 - Jared Starkey	
Data Deliverables:	Regulatory P	rogram (CAA, RCF	SA, etc.) as	Ove	317		- V			_						AcctNum / Client	
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	Rush (Pre-ap	or direquired):	Permit #	as applicab	le:		Pressure / Vacuum		PUF / FILTER						SECORTOR		
		Other_		1.00				1163301	Pressure / Vacuum					12		Table #:	
Other	Date Results Requested:			Units for Reporting: ug/m ¹ PPBV mg/m ¹ PPMV							1	Summa	E I		Table #:		
" Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV)), Other (O)				Start	End Pressu		Flow	Total		Summa		Template: T240071			
		_	Flow	1		1		Pressure /	/	Duration	Rate	Volume	ELIUM		1	Prelog / Bottle Ord. ID: P1031415	
Customer Sample ID	Matrix *	Summa	Controlle	-	Collection	End C	Collection	Vacuum	Vacuum			Sampled	15	-15		1 1001410	
11m 04 44	-	Canister ID	ID	Date	Time	Date	Time	(in Hg)	(in Hg)	(minutes)	m³/min or L/min	m ³ or L	[뽀	TO-1			
NF-SG-01	56	02293	1383	36	245	10/23/	255	-30	-5	ю	Of L/min	III OF L	V	1	-1-2	Sample Comment	
NF-56-02	SG		12664	19241	330	1401	335	-27	_	1			1	7	-	0/	
NF-56-03	56	23972	12255	10/21/2	415	1/23/29	420			5		-	X	X		- 92	
NF-56-Dupl	56	24563	ICH22	1660	-	1 7 7	-	-27	-5	5			X	X		-03	
		21303	15473	140	330	19/2/23	334	-30	-5	11		1	X	<	-11	-04	
	1	-					1								1		
seal Present Intact: Y N	eipt Checklis	Applicable			-		-										
Bottles arrive intact:	VOA Zero I Pres. Corre	Headspace:	_Y_N														
Selficient volume sent: N	77 1. 1	e e r e meck	_1_1				1					-	-	-			
RA Screen <0.5 mR/hr: N	INH				-		-										
stomer Remarks / Special Conditions / Possible Hazards															- 1		
, spesial conditions / rossible nazards	×.			Collected By:						Additional I	nstruction	s from Pace	3.				
				Printed Nam	9:					7		- II OIII I GCC					
noulehed hulfo				Signature:						# Coolers:	T	hermometer II	0:	Co	rrection	Ohr Tame (ICL)	
pulshed by/Company: (signature) Date Time: 8 - 23			Received by/C	ompany: (Si	gnature)				Date/Time:					tor (*C):	Obs. Temp. ("C): Corrected Temp. ("C):		
ingoisted by/Company (Signature) Date/Tyme:				Received by Ir	amazer (e)					- 4547 raile.					Tracking	Number:	
quished by Company: (Signature)		10/24/2	3	Received by/C	ompany: (Si	gnature)				Date/Time:					0.1	nert at 2 constru	
		Date/Time:		Received by/C	ompany: (Sig	(nature)				Date/Time:				_	Delivered	by: In-Person Courier	
quished by/Company: (Signature)	0	Date/Time:		Received by/C	ompany (s)	mature)	-									FedEX UPS Other	
mitting a cample via this at				Received by/Company: (Signature)				/		Date/Time:					J. Julie		
bmitting a sample via this chain of custody constitutes ac	cknowledgment ar	nd acceptance o	f the Pace*	Terms and	Condition	s found at	https://ww	w.pacelabs.co	om/resource	library/rasou	123		20	0		Page: of:	

O/C



Pace Analytical® ANALYTICAL REPORT

November 29, 2023

Stantec Consulting - Portland, OR

L1680890 Sample Delivery Group:

Samples Received: 10/25/2023

Project Number: 185706185

Description: North North 40 Property

Report To: Stantec

601 SW 2nd Ave., Suite 1400

Portland, OR 97204

Entire Report Reviewed By:

Jared Starkey Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received. Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT: Stantec Consulting - Portland, OR

PROJECT: 185706185

SDG: L1680890

DATE/TIME: 11/29/23 12:45 PAGE: 1 of 14

















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SAMPLE SUMMARY

			Collected by	Collected date/time	Received date/time		
NF-GP01-7' L1680890-01 Solid			Kirk L Warner	10/23/23 10:30	10/25/23 09:	00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG2178018	1	11/28/23 08:36	11/28/23 08:46	KDW	Mt. Juliet, TN	
Mercury by Method 7471B	WG2177006	1	11/26/23 15:02	11/27/23 09:30	NDL	Mt. Juliet, TN	
Metals (ICP) by Method 6010D	WG2176947	1	11/24/23 14:05	11/24/23 20:03	DJS	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
NF-GP02-7' L1680890-02 Solid			Kirk L Warner	10/23/23 10:50	10/25/23 09:	00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG2178018	1	11/28/23 08:36	11/28/23 08:46	KDW	Mt. Juliet, TN	
Mercury by Method 7471B	WG2177006	1	11/26/23 15:02	11/27/23 09:35	NDL	Mt. Juliet, TN	
Metals (ICP) by Method 6010D	WG2176947	1	11/24/23 14:05	11/24/23 20:06	DJS	Mt. Juliet, TN	























CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



















Jared Starkey

Project Manager

DETECTION SUMMARY

Mercury by Method 7471B

		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	n Dilutio	Analysis	<u>Batch</u>
Client ID	<u>Lab Sample ID</u> Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP02-7'	<u>L1680890-02</u> Mercury	0.143		0.0205	0.0456	1	11/27/2023 09:35	WG2177006





			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID	Analyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP01-7'	L1680890-01	Arsenic	3.29		0.623	2.40	1	11/24/2023 20:03	WG2176947
NF-GP01-7'	L1680890-01	Barium	7.83		0.102	0.601	1	11/24/2023 20:03	WG2176947
NF-GP01-7'	L1680890-01	Chromium	6.59		0.160	1.20	1	11/24/2023 20:03	WG2176947
NF-GP01-7'	L1680890-01	Lead	2.92		0.250	0.601	1	11/24/2023 20:03	WG2176947
NF-GP02-7'	L1680890-02	Arsenic	3.74		0.591	2.28	1	11/24/2023 20:06	WG2176947
NF-GP02-7'	L1680890-02	Barium	9.61		0.0972	0.571	1	11/24/2023 20:06	WG2176947
NF-GP02-7'	L1680890-02	Chromium	6.41		0.152	1.14	1	11/24/2023 20:06	WG2176947
NF-GP02-7'	L1680890-02	Lead	2.83		0.237	0.571	1	11/24/2023 20:06	WG2176947



Ss















L1680890

Total Solids by Method 2540 G-2011

Collected date/time: 10/23/23 10:30

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	83.2		1	11/28/2023 08:46	WG2178018

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0216	0.0481	1	11/27/2023 09:30	WG2177006



Ss

Cn

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.29		0.623	2.40	1	11/24/2023 20:03	WG2176947
Barium	7.83		0.102	0.601	1	11/24/2023 20:03	WG2176947
Cadmium	U		0.0566	0.601	1	11/24/2023 20:03	WG2176947
Chromium	6.59		0.160	1.20	1	11/24/2023 20:03	WG2176947
Lead	2.92		0.250	0.601	1	11/24/2023 20:03	WG2176947
Selenium	U		0.918	2.40	1	11/24/2023 20:03	WG2176947
Silver	U		0.153	1.20	1	11/24/2023 20:03	WG2176947













DATE/TIME:

11/29/23 12:45

Total Solids by Method 2540 G-2011

Collected date/time: 10/23/23 10:50

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	87.6		1	11/28/2023 08:46	WG2178018

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.143		0.0205	0.0456	1	11/27/2023 09:35	WG2177006



Ss

Cn

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.74		0.591	2.28	1	11/24/2023 20:06	WG2176947
Barium	9.61		0.0972	0.571	1	11/24/2023 20:06	WG2176947
Cadmium	U		0.0537	0.571	1	11/24/2023 20:06	WG2176947
Chromium	6.41		0.152	1.14	1	11/24/2023 20:06	WG2176947
Lead	2.83		0.237	0.571	1	11/24/2023 20:06	WG2176947
Selenium	U		0.872	2.28	1	11/24/2023 20:06	WG2176947
Silver	U		0.145	1.14	1	11/24/2023 20:06	WG2176947













Total Solids by Method 2540 G-2011

L1680890-01,02

Method Blank (MB)

1)	MB) R4005540-1 <i>1</i>	11/28/23 08:46			
		MB Result	MB Qualifier	MB MDL	MB RDL
А	ınalyte	%		%	%
T	otal Solids	0.000			

3 Ss

L1680890-01 Original Sample (OS) • Duplicate (DUP)

	(OS) L1680890-01	11/20/22 00:46	(DLID	D400EE40 2	11/20/22 00:46
- 1	(U3) L100003U-U1	11/20/23 00.40 •	(DQF)) K4003340-3	11/20/23 00.40

	Original Res	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.2	83.3	1	0.187		10



Sr

Laboratory Control Sample (LCS)

(LCS) R4005540-2 11/28/23 08:46

(LCS) N4003340-2 11/20/	25 00.40				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	



ĞI



WG2177006

QUALITY CONTROL SUMMARY

L1680890-01,02

Mercury by Method 7471B

(MB) R4004499-1 11/27/23 08:27

Method Blank (MB)

, ,	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400



³Ss

Laboratory Control Sample (LCS)

(LCS) R4004499-2 11/27/23 08:29

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.513	103	80.0-120	



[†]Cn



L1680082-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1680082-08 11/27/23 08:32 • (MS) R4004499-3 11/27/23 08:34 • (MSD) R4004499-4 11/27/23 08:37

(03) 11000002-00 11/2//2	3 00.32 (1013) 1	117007733-3 1	1/2//25 00.54	(14130) 1440044	11/2//25	00.57						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.551	U	0.514	0.531	93.2	96.4	1	75.0-125			3.36	20









PAGE:

9 of 14

DATE/TIME:

11/29/23 12:45

WG2176947

QUALITY CONTROL SUMMARY

L1680890-01,02

Method Blank (MB)

Metals (ICP) by Method 6010D

	, ,			
(MB) R4004195-1 1	11/24/23 18:49			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.518	2.00
Barium	0.107	<u>J</u>	0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Lead	U		0.208	0.500
Selenium	U		0.764	2.00

³Ss





Sr

Laboratory Control Sample (LCS)

U

Silver

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	98.2	98.2	80.0-120	
Barium	100	101	101	80.0-120	
Cadmium	100	95.4	95.4	80.0-120	
Chromium	100	97.3	97.3	80.0-120	
Lead	100	96.1	96.1	80.0-120	
Selenium	100	95.3	95.3	80.0-120	
Silver	20.0	18.0	90.1	80 0-120	











L1680799-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

0.127

1.00

(OS) L1680799-01 11/24/23 18:54 • (MS) R4004195-5 11/24/23 19:02 • (MSD) R4004195-6 11/24/23 19:05

	Spike Amount (dry)	Original Result (dry)		MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	118	3.50	112	114	91.2	93.1	1	75.0-125			1.94	20
Barium	118	68.3	172	175	87.3	90.0	1	75.0-125			1.90	20
Cadmium	118	0.234	106	109	89.7	92.2	1	75.0-125			2.69	20
Chromium	118	8.69	111	113	86.5	88.4	1	75.0-125			1.98	20
Lead	118	37.1	147	165	93.0	108	1	75.0-125			11.5	20
Selenium	118	0.933	105	108	88.2	90.1	1	75.0-125			2.15	20
Silver	23.7	U	20.7	21.2	87.3	89.5	1	75.0-125			2.53	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Appreviations and	d Definitions
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The identification of the analyte is acceptable; the reported value is an estimate.























ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto





















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Stantec Consulting - Portland, OR 601 SW 2nd Ave., Suite 1400 Portland, OR 97204 Report to: Stantec Email To: kirk.warner@stantec.com		Suite 1400	Pres Chk	E CONTRACTOR OF THE PARTY OF TH			Analysis	(Cont.	niner / P	recervative		- /AP	_ Chain of Custody Page _ of _ Pace* PEDRIA ADDANCING SCIENCE											
		Email To: kirk.warner@			il To: kirk.warner@stantec.com			ner@stantec.com		r@stantec.com		er@stantec.com		r@stantec.com										MT
Project Description: North North 40 Property		City/State	Seaside	0149	Please				I/Syr						12065 Lebanon Rd 5 Submitting a sample constitutes acknowle	flosint Juliet, TN 37122 via this chain of custody digment and acceptance of th								
Phone: 503-297-1631	Client Proje 1857061	ct#		Lab Projec				4ozClr-NoPres	DH10m	Pres	S		ml/Syr		terms pdf	com/hubls/pay-standard-	1							
Collected by (print): KINK Warre	Site/Facility	/Facility ID #					res	ozClr-	o/Me	4ozClr-NoPres	NoPres	i i	OHIC		FO 4/69	16 30890	-11							
Collected by (signature): H W C Immediately Packed on Ice N Y X	y (signature):		Day v (Rad Only)	Quote #	N. S. W.				8 8ozClr-NoPres	NWTPHDXNOSGT 46	NWTPHGX 40mlAmb/MeOH10ml/Syr	SV8270PAHSIM 402		4ozClr-NoPres	40mlAmb/MeOH10ml/Sy		Prelogin: P10 PM: 546 - Jare	Acctnum: SECORTOR Template: T240069 Prelogin: P1031414 PM: 546 - Jared Starkey						
Sample ID	Comp/Gral	Matrix *	Depth	Date	Time	_ af Cntrs	MRCRAB	WTPH	VTPH	82706	LP Me	4ozCl	V8260 4		PB: 10/1	1/a3 TLS								
NF-6801-7'	6	SS	7'	10/13/	23 /1030	3	2	ź	2	S	TCLP	TS	V8.		Remarks	Sample # (lab only)	4							
NF-GPOZ-71	6	SS	7'	1	1050	3	-								1419	1-04	1							
NE-GP03	C	SS	0-2'		450	3	V	1	1	K	1	V	Y		100) 8	-02	-							
NF-GPO4	C	SS	03'		420	3		1	5	X	X	Ú.	X			-03/01								
NF-6P-05	C	SS	0-1'		430	13	X	1	5		×	X	X	10.00		205/06	-							
NF-50-Pupil	G	SS	0-3		425	3	X	7	1	7	~	X	X		-	-07/08								
N=-50-MS1	C	SS	0-1'	4	440	3	V	1	I	×	X	7	X			200/10								
		SS		4.1.5			^		1	×			^			-11/12	-							
		SS																						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater										pH Temp				Sample Receipt Checkist OC Seal Present/Intact: NP Y N OC Signed/Accurate: M N ottles arrive intact: N										
DW - Drinking Water OT - Other		mples returned via: UPSFedExCourier			Tracking #			13	43					Sufficient	volume sent: If Applicab	le Zi N								
Relinquished by : (Signature)	0	o/24/23	Time:	Re	eceived by: (Signati	the mounts			-	rip Blani	-	ed: Ø	No HCL (MEOH	DID COVER	eadspace: on Correct/Che <0.5 mR/hr:	ecked: Y N								
Relinquished by : (Signature)	D	Time: Received by: (Signate: Time: Received by: (Signate: Received b				ure)	2	ik.		emp(1		Bottle	BR Pes Received	If preservation	If preservation required by Login: Date/Time									
Relinquished by : (Signature)	D	ate:	Time:	Re	received for lab by:			1	7 0	ate:		Time	-	Hold:		Condition: NCF / (OK)								



Pace Analytical® ANALYTICAL REPORT

December 01, 2023

Stantec Consulting - Portland, OR

L1681546 Sample Delivery Group:

Samples Received: 10/25/2023

Project Number: 185706185

Description: North North 40 Property

Report To: Stantec

601 SW 2nd Ave., Suite 1400

Portland, OR 97204



















Entire Report Reviewed By:

Jared Starkey

Project Manager Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be

reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

NF-GP03 L1681546-01 Solid			Collected by Kirk L Warner	Collected date/time 10/23/23 16:50	Received da 10/25/23 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2179177	1	11/29/23 16:00	12/01/23 00:04	TQP	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
NF-GP04 L1681546-02 Solid			Kirk L Warner	10/23/23 16:20	10/25/23 09	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG2159740	1	10/28/23 09:34	10/28/23 09:44	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2179177	1	11/29/23 16:00	12/01/23 00:04	TQP	Mt. Juliet, TN





















Stantec Consulting - Portland, OR

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

























Jared Starkey Project Manager

Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

Batch Method Lab Sample ID WG2179177 3060A/7196A L1681546-01, 02

Wet Chemistry by Method 3060A/7196A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch Lab Sample ID **Analytes** WG2179177 (MS) R4006745-4, (MS) R4006745-6,

(MSD) R4006745-5

Chromium, Hexavalent

DETECTION SUMMARY

Wet Chemistry by Method 3060A/7196A

			Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilutio n	Analysis	Batch
Client ID	Lab Sample ID Anal	lyte	mg/kg		mg/kg	mg/kg		date / time	
NF-GP04	L1681546-02 Chro	omium,Hexavalent	1.89	J T8	0.794	2.48	1	12/01/2023 00:04	WG2179177





















SAMPLE RESULTS - 01

L1681546

Total Solids by Method 2540 G-2011

Collected date/time: 10/23/23 16:50

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	93.2		1	10/28/2023 09:44	WG2159740

²Tc

Wet Chemistry by Method 3060A/7196A

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chromium, Hexavalent	U	T8	0.687	2.15	1	12/01/2023 00:04	WG2179177	













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SAMPLE RESULTS - 02

Total Solids by Method 2540 G-2011

Collected date/time: 10/23/23 16:20

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	80.6		1	10/28/2023 09:44	WG2159740





	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chromium.Hexavalent	1.89	J T8	0.794	2.48	1	12/01/2023 00:04	WG2179177	



Ss















WG2159740

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

L1681546-01,02

Method Blank (MB)

(MB) R3992655-1 10	0/28/23 09:44			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			



Ss

L1670131-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1670131-05 10/28/23 09:44 • (DUP) R3992655-3 10/28/23 09:44

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	80.1	79.3	1	0.937		10



Sr

Laboratory Control Sample (LCS)

(LCS) R3992655-2 10/28/23 09:44

(LC3) K3992033-2 10/20	3/23 09.44				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	





QUALITY CONTROL SUMMARY

Wet Chemistry by Method 3060A/7196A

L1681546-01,02

Method Blank (MB)

(MB) R4006745-1 11/30/23 23:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chromium, Hexavalent	U		0.640	2.00



L1679415-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1679415-06 11/30/23 23:55 • (DUP) R4006745-3 11/30/23 23:55

. ,	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium, Hexavalent	U	U	1	0.000		20



Ss

⁶Sr

Laboratory Control Sample (LCS)

(LCS) R4006745-2 11/30/23 23:54

(200) 10 10 007 10 2 11/00	720 20.0 1				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chromium Hexavalent	24 0	26.4	110	80 0-120	







 $(OS) \, L1679422 - 06 \, \, 11/30/23 \, \, 23:55 \, \bullet \, (MS) \, R4006745 - 4 \, \, 11/30/23 \, \, 23:56 \, \bullet \, (MSD) \, R4006745 - 5 \, \, 11/30/23 \, \, 23:59 \, \, (MSD) \, R4006745 - 5 \, \, 11/30/23 \, \, 23:59 \, \, (MSD) \, R4006745 - 1 \, 11/30/23 \, \, (MSD) \, R400$

(00) 21070 122 00 11700	20 20.00 (1110)	11 10 00 7 10 1 1	1/00/20 20:00	(11100) 11 1000	7 10 0 11/00/20	20.00							
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chromium, Hexavalent	25.4	U	14.6	15.3	57.3	60.3	1	75.0-125	<u>J6</u>	<u>J6</u>	5.05	20	

Sc

Sample Narrative:

MS: Spike failure due to matrix interference

MSD: Spike failure due to matrix interference

L1679422-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1679422-06 11/30/23 23:55 • (MS) R4006745-6 12/01/23 00:02

(O3) L10/9422-06 11/30/	Spike Amount (dry)				Dilution	Rec. Limits	MS Qualifier
alyte	mg/kg	mg/kg	mg/kg	%		%	
Chromium, Hexavalent	828	U	458	55.3	50	75.0-125	

Sample Narrative:

MS: Spike failure due to matrix interference

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Appleviations and	a Delimitoris
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

<u> </u>	Beschiption
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

¹Cp











Śr









ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 1 4	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234



^{*} Not all certifications held by the laboratory are applicable to the results reported in the attached report.

TN00003

EPA-Crypto





















 $^{^* \, \}text{Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.} \\$

Company Name/Address:	part parts		Billing Info	ormation:		T	1			Anal	10											
Stantec Consulting -	onsulting - Portland, OR			ts Payabl		Pres	27			analysis	Conta	iner / P	reservative			Chain of Custo	ody Page of _	-				
501 SW 2nd Ave., Suite 1400 Portland, OR 97204					601 SW 2nd Ave., Suite 1400 Portland, OR 97204									+						PEO	Pace"	
Report to: Stantec			Email To: I	Email To: kirk.warner@stantec.com													JULIET, TN					
Project Description: North North 40 Property		City/State Collected:	Seaside	Ores	Please PT MT			s	nI/Syr						1000000	Submitting a sample constitutes acknowl Pace Terms and Con	Mount Julies, TN 37122 tivia this chain of custody edgment and acceptance of the distinct found at: s.com/hub/s/pes-stancard-					
Phone: 503-297-1631	185706			Lab Proje	TOR-18570618	5		NoPre	OH10r	oPres	35		0ml/sy			terms.pdf	1670148 116	AV				
Collected by (print): Kirk Warn	Site/Facili	ty ID#		P.O. #			Pres	ozClr	b/Me	4ozClr-NoPres	Nopre		еОН1			6 168	31546	11/2				
Collected by (signature):		Rush? (Lab MUST Be Notified) Q					8ozClr-NoPres	SGT 4	mlAm	M 402	JOZOL	res	M/qm			Acctnum: SE Template: T2						
Immediately Packed on Ice NY_	Nex Two	Day 5 Da	5 Day (Rad Only) Date Results Needed N 10 Day (Rad Only) 570					NWTPHDXNOSGT 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Sy	SV8270PAHSIM	Metals 8ozCIr-NoPres	4ozClr-NoPres	40m/Amb/MeOH10ml/Syr			Prelogin: P1						
Sample ID	Comp/Gr	b Matrix *	Depth	Dat	e Time	Cntrs	MRCRAS	WTP	WTP	V827	TCLP N		V8260			Shipped Via:						
NF-6801-7'	6	SS	7'	10/13	123 /030	13	-	Z	Z	S	F	TS	S			1410	Sample # (lab only)					
NF-GPOZ71	6	SS	7'		1050	13	-						200			bloth	- 05					
NF-CP03	C	SS	0-2'		450	13	×	1	X	K	×	X	Y			120/0	- 24	- 2				
NF-GPO4	C	SS	173,		420	13	V	X	X	X	×	V	X				-05/06	-00				
NF-6P-05	C	SS	0-1'		430	13	V	Z	2	Y	X	X	X				-07/08					
NF-50-Pupil	6	SS	0-3		425	3	X	X	X	K	X	X	X				01/00	1				
NF-50-MS1	C	SS	0-1'	4	440	3	X	X	1	×	X	X	X				>11/2					
		SS	7.									2 100					211/1					
		SS																				
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:	emarks:							pH Temp				coc	Sample Receipt Checkist COC Seal Present/Intact: NP Y N COC Signed/Accurate: NP N Bottles arrive intact: NP N								
DW - Drinking Water DT - Other	Samples returnUPSFed	ed via: Ex Courier		Tracking# 6643 U				43	,11	48	398	NAME OF TAXABLE PARTY.	Suff	cient	tles used: volume sent: If Applical							
Relinquished by : (Signature)				iture)			-	-	k Receiv	ed: &	No HCL (MEOH	Pres	ervatio	eadspace: on Correct/Ch <0.5 mR/hr:	ecked: $\sqrt{Y} = N$							
Relinquished by : (Signature)		Date:	Time:		Received by: (Signa	iture)					2/18°C	Bott	es Received	If pre	servatio	n required by Lo	gin: Date/Time					
Relinquished by : (Signature)	Date: Tim			100	Received for lab by: (Signature)			1		ate:	77	Time	-	Hold:			Condition: NCF / (OK)					

SECORTOR L1670148 Relogs

R2/R3/R4/RX/EX

Please relog the following to L1680890-03 and -04 for CR6, transfer TS.

L1670148-03 (NF-GP03)

L1670148-05 (NF-GP04

NOTICE-- The contents of this email and any attachments may contain confidential, privileged, and/or legally protected information and are for the sole use of the addressee(s). Any review or distribution by others is strictly prohibited. If you are not

the intended recipient, please contact the sender immediately and delete any copies.

P Please consider the environment before printing this email

Time estimate: oh

Time spent: oh

Members

JS Jared Starkey (responsible)

APPENDIX C

Data Validation Reports



DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1670148
Project Name:	North North 40 Property
Stantec Project Number:	185706185
Client:	Clatsop County
Validator Name:	Katie Doroski
Date of Validation:	November 10, 2023

SAMPLE INFORMATION:

SAMPLE INFORMATION:		
Number of Samples:	Five	
Matrix:	5 Soil samples	
Number of Trip Blanks:	None	
Number of Equipment Blanks:	None	
Number of Field Duplicates	One	
Date of Sample Collection:	October 23, 2023	
Sample Name:	Analyses:	Batches:
NF-GP03	Total Solids (EPA 2540 G-2011)	WG2159740
	VOCs (EPA 8260D)	WG2159008
	GRO (NWTPH-Gx)	WG2161129
	DRO/RRO (NWTPH-Dx)	WG2161014
	PAHs (EPA 8270E-SIM)	WG2161016
	Total Metals (EPA 6010D)	WG2159786
	Total Mercury (EPA 7471B)	WG2159649
	TCLP Metals (EPA 6010D)	WG2160108
	TCLP Mercury (EPA 7470A)	WG2159878
NF-GP04	Total Solids (EPA 2540 G-2011)	WG2159740
	VOCs (EPA 8260D)	WG2159008
	GRO (NWTPH-Gx)	WG2161129
	DRO/RRO (NWTPH-Dx)	WG2161014
	PAHs (EPA 8270E-SIM)	WG2161016
	Total Metals (EPA 6010D)	WG2159786
	Total Mercury (EPA 7471B)	WG2159649
	TCLP Metals (EPA 6010D)	WG2160108
	TCLP Mercury (EPA 7470A)	WG2159878
NF-GP05	Total Solids (EPA 2540 G-2011)	WG2159740
	VOCs (EPA 8260D)	WG2159991, WG2160889
	GRO (NWTPH-Gx)	WG2161129
	DRO/RRO (NWTPH-Dx)	WG2161014
	PAHs (EPA 8270E-SIM)	WG2161016
	Total Metals (EPA 6010D)	WG2159786
	Total Mercury (EPA 7471B)	WG2159640
	TCLP Metals (EPA 6010D)	WG2160108
	TCLP Mercury (EPA 7470A)	WG2159878
NF-SD-DUP11	Total Solids (EPA 2540 G-2011)	WG2159740
	VOCs (EPA 8260D)	WG2159991
	GRO (NWTPH-Gx)	WG2161129
	DRO/RRO (NWTPH-Dx)	WG2161014
	PAHs (EPA 8270E-SIM)	WG2161016
	Total Metals (EPA 6010D)	WG2159786
	Total Mercury (EPA 7471B)	WG2159640
	TCLP Metals (EPA 6010D)	WG2160108
	TCLP Mercury (EPA 7470A)	WG2159878

Sample Name:	Analyses:	Batches:	
NF-SO-MS1	Total Solids (EPA 2540 G-2011)	WG2159740	
	VOCs (EPA 8260D)	WG2159991	
	GRO (NWTPH-Gx)	WG2161809	
	DRO/RRO (NWTPH-Dx)	WG2161014	
	PAHs (EPA 8270E-SIM)	WG2161016	
	Total Metals (EPA 6010D)	WG2159786	
	Total Mercury (EPA 7471B)	WG2159649	
	TCLP Metals (EPA 6010D)	WG2160108	
	TCLP Mercury (EPA 7470A)	WG2159878	

GENERAL DATA VALIDATION:

Case Narrative:

The laboratory noted that associated batch QC were outside of acceptance limits for VOCs and p-isopropyltoluene was detected in one method blank. These non-conformances are discussed further below.

Chain of Custody:

The COC is complete. All requested analyses were performed.

Sample Receipt:

The samples were received intact, properly preserved, and within the recommended temperature.

Holding Times:

All samples were analyzed within the recommended holding time.

Trip Blank Review:

There were no trip blank samples submitted.

Equipment Blank Review:

There were no equipment blank samples submitted.

Surrogates:

All surrogate recoveries were within acceptance limits.

Elevated Reporting Limits:

GRO – Three samples were analyzed at a 5x dilution.

DRO/RRO – Five samples were analyzed at a 25-44x dilution.

Laboratory RLs were raised accordingly.

Additional Items:

None.

PER ANALYSIS:

Total Petroleum Hydrocarbons as Diesel and Oil, Method NWTPD-Dx (Batch WG2161014)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Gasoline, Method NWTPD-Gx (Batches WG2161129 and WG2161809)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Volatile Organic Compounds, *Method 8260D* (Batches WG2159008, WG2159991 and WG2160889)

Method Blanks:

p-Isopropyltoluene was detected above the MDL in the laboratory method blank for batch WG2159991. This analyte was qualified as estimated with a potential positive bias (J+) in one associated sample and it was qualified as non-detect (U) and the non-detect value was raised to the reporting limit in one associated sample.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries exceeded the control limits for trichlorofluoromethane and vinyl chloride in batch WG2159991. These analytes were not detected in the associated samples; no data was qualified. The LCS/LCSD RPD exceeded the control limits for acetone in batch WG2159991. This analyte was qualified as estimated (J) in the associated samples when detected.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Polycyclic Aromatic Hydrocarbons, Method EPA 8270E SIM (Batch WG2161016)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Metals, Method 6010D (Batch WG2159786 and WG2160108)

Method Blanks:

No analytes were detected above the MRL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

The MS/MSD was performed on sample NF-SO-MS1. MS/MSD recoveries were outside of acceptance limits for chromium. The spike was too low; no qualifiers are needed.

Mercury, Method 7470A/7471B (Batches WG2159640, WG2159649, and WG2159878)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

FIELD DUPLICATE REVIEW: One field duplicate sample was collected, sample NF-SD-DUP11 is a field duplicate of sample NF-GP04. RPDs are calculated between the results of the duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. Constituents that met the criteria are tabulated below. Calculated RPDs were within the 50% acceptance limits; no data was qualified.

Sample Name	Constituent	Result	MRL	Unit	RPD
NF-SD-DUP11	Arsenic	12.4	2.15	mg/kg	11.4%
NF-GP04	Arsenic	13.9	2.48	mg/kg	11.470
NF-SD-DUP11	Barium	46.1	0.537	mg/kg	6.1%
NF-GP04	Barium	49	0.62	mg/kg	0.1%
NF-SD-DUP11	Chromium	2340	1.07	mg/kg	24.4%
NF-GP04	Chromium	2990	1.24	mg/kg	24.4%
NF-SD-DUP11	Lead	21.2	0.537	mg/kg	37.2%
NF-GP04	Lead	30.9	0.62	mg/kg	31.2%

DETERMINATION:

The data in this work order have been validated. All data are considered usable as qualified:

Sample ID	Method	<u>Analyte</u>	<u>Original</u> <u>Result</u>	<u>Validated</u> <u>Result</u>	<u>Units</u>	Reason Code
NF-GP05	8260D	Acetone	0.108	0.108 J	mg/kg	10c
NF-GP05	8260D	p-Isopropyltoluene	0.00478 J	0.00655 U	mg/kg	07a
NF-SD-MS1	8260D	Acetone	0.041 J	0.041 J	mg/kg	10c
NF-SD-MS1	8260D	p-Isopropyltoluene	0.00973	0.00973 J+	mg/kg	07a

Notes:

mg/kg= milligrams per kilogram

Reason Codes: 07a = Target parameter is detected in laboratory method blank sample. 10c = The LCS/LCSD RPD was greater than the control limit.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to measure the analyte accurately and precisely in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- J Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

- EPA. 2017a. USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review. EPA-540-R-2017-001. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- EPA. 2017b. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. EPA-540-R-2017-002. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- Stantec. 2023. Master Quality Assurance Project Plan Clatsop County EPA Brownfield Community-Wide Assessment Grant. BF- 02J17201. March.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1670158
Project Name:	North North 40 Property
Stantec Project Number:	185706185
Client:	Clatsop County
Validator Name:	Katie Doroski
Date of Validation:	November 10, 2023

SAMPLE INFORMATION:

SAMPLE INFORMATION:		
Number of Samples:	Four	
Matrix:	Groundwater	
Number of Trip Blanks:	None	
Number of Equipment Blanks:	: None	
Number of Field Duplicates	One	
Date of Sample Collection:	October 23, 2023	
Sample Name:	Analyses:	Batches:
NF-GW01	VOCs (EPA 8260D)	WG2160054
	GRO (NWTPH-Gx)	WG2161133
	DRO/RRO (NWTPH-Dx)	WG2161004
	PAHs (EPA 8270C-SIM)	WG2158210
	Total Metals (EPA 6010D)	WG2158880
	Dissolved Metals (EPA 6010D)	WG2158848
	Total Mercury (EPA 7470A)	WG2159702
	Dissolved Mercury (EPA 7470A)	WG2159706
NF-GW02	VOCs (EPA 8260D)	WG2160054
	GRO (NWTPH-Gx)	WG2161783
	DRO/RRO (NWTPH-Dx)	WG2161004
	PAHs (EPA 8270C-SIM)	WG2158210
	Total Metals (EPA 6010D)	WG2158880
	Dissolved Metals (EPA 6010D)	WG2158848
	Total Mercury (EPA 7470A)	WG2160237
	Dissolved Mercury (EPA 7470A)	WG2159706
NF-GW DupL.	VOCs (EPA 8260D)	WG2160054
	GRO (NWTPH-Gx)	WG2161783
	DRO/RRO (NWTPH-Dx)	WG2161004
	PAHs (EPA 8270C-SIM)	WG2158210
	Total Metals (EPA 6010D)	WG2158880
	Dissolved Metals (EPA 6010D)	WG2158848
	Total Mercury (EPA 7470A)	WG2159708
	Dissolved Mercury (EPA 7470A)	WG2159706
NF-GW MS1	VOCs (EPA 8260D)	WG2160054
	GRO (NWTPH-Gx)	WG2161783
	DRO/RRO (NWTPH-Dx)	WG2161004
	PAHs (EPA 8270C-SIM)	WG2158650
	Total Metals (EPA 6010D)	WG2158880
	Dissolved Metals (EPA 6010D)	WG2158848
	Total Mercury (EPA 7470A)	WG2160641
	Dissolved Mercury (EPA 7470A)	WG2159706

GENERAL DATA VALIDATION:

Case Narrative:

The laboratory noted that instrument calibration was outside of acceptance limits for five VOCs and iodomethane was detected in one method blank. These non-conformances are discussed further below.

Chain of Custody:

The COC is complete. All requested analyses were performed.

Sample Receipt:

The samples were received intact, properly preserved, and within the recommended temperature with one exception.

Holding Times:

All samples were analyzed within the recommended holding time.

Trip Blank Review:

There were no trip blank samples submitted.

Equipment Blank Review:

There were no equipment blank samples submitted.

Surrogates:

All surrogate recoveries were within acceptance limits.

Elevated Reporting Limits:

There were no elevated lab limits reported.

Additional Items:

The continuing calibration verification indicated a low bias in VOC batch WG2160054 for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, naphthalene, trans-1,4-dichloro-2-butene, and vinyl acetate. The results were qualified as estimated, "J-" for detected analytes and "UJ" for non-detects in the four associated samples.

PER ANALYSIS:

Total Petroleum Hydrocarbons as Diesel and Oil, Method NWTPD-Dx (Batch WG2161004)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Gasoline, Method NWTPD-Gx (Batches WG2161133 and WG2161783)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Volatile Organic Compounds, Method 8260D (Batch WG2160054)

Method Blanks:

lodomethane was detected at 14.6 µg/L in the laboratory method blank for batch WG2160054. The results in four associated samples were non-detect; no data was qualified.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Polycyclic Aromatic Hydrocarbons, *Method EPA 8270C SIM* (Batches WG2158210 and WG2158650)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Metals, Method 6010D (Batches WG2158848 and WG2158880)

Method Blanks:

No analytes were detected above the MRL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

The MS/MSD was performed on sample NF-GW02. Spike recoveries and RPDs were within the acceptance limits. No qualifiers are needed.

Mercury, *Method 7470A* (Batches WG2159702, WG2159706, WG2160237, WG2159708, and WG2160641)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blanks. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

The MS/MSD was performed on sample CC-GP 03. Spike recoveries and RPDs were within the acceptance limits. No qualifiers are needed.

FIELD DUPLICATE REVIEW: One field duplicate sample was collected, sample NF-GW DUPL is a field duplicate of sample NF-GW02. RPDs are calculated between the results of the duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. No constituents met the criteria; no data was qualified.

DETERMINATION:

The data in this work order have been validated. All data are considered usable as qualified:

Sample ID	Method	<u>Analyte</u>	<u>Original</u> <u>Result</u>	<u>Validated</u> <u>Result</u>	<u>Units</u>	Reason Code
NF-GW 01	8260D	trans-1,4-Dichloro-2- butene	0.000467 U	0.000467 UJ	mg/L	051
NF-GW 01	8260D	Naphthalene	0.00176	0.00176 J-	mg/L	05I
NF-GW 01	8260D	1,2,3-Trichlorobenzene	0.000164 U	0.000164 UJ	mg/L	05I
NF-GW 01	8260D	1,2,4-Trichlorobenzene	0.000481 U	0.000481 UJ	mg/L	05I
NF-GW 01	8260D	Vinyl acetate	0.000692 U	0.000692 UJ	mg/L	05I
NF-GW 02	8260D	trans-1,4-Dichloro-2- butene	0.000467 U	0.000467 UJ	mg/L	051
NF-GW 02	8260D	Naphthalene	0.000174 U	0.000174 UJ	mg/L	05I
NF-GW 02	8260D	1,2,3-Trichlorobenzene	0.000164 U	0.000164 UJ	mg/L	05I
NF-GW 02	8260D	1,2,4-Trichlorobenzene	0.000481 U	0.000481 UJ	mg/L	05I
NF-GW 02	8260D	Vinyl acetate	0.000692 U	0.000692 UJ	mg/L	05I
NF-GW DUPL.	8260D	trans-1,4-Dichloro-2- butene	0.000467 U	0.000467 UJ	mg/L	051
NF-GW DUPL.	8260D	Naphthalene	0.000174 U	0.000174 UJ	mg/L	05I
NF-GW DUPL.	8260D	1,2,3-Trichlorobenzene	0.000164 U	0.000164 UJ	mg/L	05I
NF-GW DUPL.	8260D	1,2,4-Trichlorobenzene	0.000481 U	0.000481 UJ	mg/L	05I
NF-GW DUPL.	8260D	Vinyl acetate	0.000692 U	0.000692 UJ	mg/L	05I
NF-GW MS1	8260D	trans-1,4-Dichloro-2- butene	0.000467 U	0.000467 UJ	mg/L	051
NF-GW MS1	8260D	Naphthalene	0.000174 U	0.000174 UJ	mg/L	051
NF-GW MS1	8260D	1,2,3-Trichlorobenzene	0.000164 U	0.000164 UJ	mg/L	051
NF-GW MS1	8260D	1,2,4-Trichlorobenzene	0.000481 U	0.000481 UJ	mg/L	051
NF-GW MS1	8260D	Vinyl acetate	0.000692 U	0.000692 UJ	mg/L	05I

Notes:

mg/L= milligrams per liter

Reason Codes:

05l = The percent drift in the continuing calibration verification is outside control limits, and the response indicates decreased sensitivity to the chemical.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to measure the analyte accurately and precisely in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- J Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

- EPA. 2017a. USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review. EPA-540-R-2017-001. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- EPA. 2017b. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. EPA-540-R-2017-002. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- Stantec. 2023. Master Quality Assurance Project Plan Clatsop County EPA Brownfield Community-Wide Assessment Grant. BF- 02J17201. March.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1671018
Project Name:	North North 40 Property
Stantec Project Number:	185706185
Client:	Clatsop County
Validator Name:	Katie Doroski
Date of Validation:	November 10, 2023

SAMPLE INFORMATION:

Number of Samples:	Four	
Matrix:	Air	
Number of Trip Blanks:	None	
Number of Equipment Blanks:	None	
Number of Field Duplicates	One	
Date of Sample Collection:	October 23, 2023	
Sample Name:	Analyses:	Batches:
NF-SG-01	VOCs (TO-15)	WG2164484
	Helium (D1946)	WG2162269
NF-SG-02	VOCs (TO-15)	WG2165442
	Helium (D1946)	WG2162269
NF-SG-03	VOCs (TO-15)	WG2165442
	Helium (D1946)	WG2162269
NF-SG-DUP1	VOCs (TO-15)	WG2164484
	Helium (D1946)	WG2162269

GENERAL DATA VALIDATION:

Case Narrative:

The laboratory noted that the acetone concentration in sample NF-SG-DUP1 exceeded the upper limit of the calibration range of the instrument. The result was qualified as estimated (J).

Chain of Custody:

The COC is complete. All requested analyses were performed.

Sample Receipt:

The samples were received intact and at ambient temperature, which is acceptable for air samples.

Holding Times:

All samples were analyzed within the recommended holding time.

Trip Blank Review:

There were no trip blank samples submitted.

Equipment Blank Review:

There were no equipment blank samples submitted.

Surrogates:

All surrogate recoveries were within acceptance limits.

Elevated Reporting Limits:

VOCs – Two samples were analyzed at a 5x dilution.

Laboratory RLs were raised accordingly.

Additional Items:

The calibration range was exceeded by acetone in sample NF-SG-DUP1. This analyte was qualified as estimated (J) in the sample.

PER ANALYSIS:

Volatile Organic Compounds, Method TO-15 (Batches WG2164484 and WG2165442)

Method Blanks:

Ethanol was detected at 1.29J ppbv in the laboratory method blank for batch WG2164484 and 0.312J ppbv in batch WG2165442. One associated result was qualified as estimated with a potential positive bias (J+).

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were below the acceptance limits and above the RPD acceptance limits for methyl butyl ketone in VOCs batch WG2164484. This analyte was qualified as estimated with a potential negative bias (J-) in one associated sample and estimated non-detect (UJ) in one other associated sample.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Helium, Method D1946 (Batch WG2162269)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

FIELD DUPLICATE REVIEW: One field duplicate sample was collected, sample NF-SG-DUP1 is a field duplicate of sample NF-SG-02. RPDs are calculated between the results of the duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. Constituents that met the criteria are tabulated below. Calculated RPDs were within the 50% acceptance limits; no data was qualified.

Sample Name	Constituent	Result	esult MRL Unit		RPD
NF-SG-DUP1	Acetone	844 E	2.97	μg/m³	4.9%
NF-SG-02	Acetone	886	14.9	µg/m³	4.9%
NF-SG-DUP1	Ethylbenzene	108	0.867	µg/m³	6.70/
NF-SG-02	Ethylbenzene	101	4.34	µg/m³	6.7%
NF-SG-DUP1	2-Butanone (MEK)	131	3.69	µg/m³	0.8%
NF-SG-02	2-Butanone (MEK)	132	18.4	µg/m³	0.0%
NF-SG-DUP1	Total Xylenes	899	2.61	µg/m³	1.5%
NF-SG-02	Total Xylenes	886	13	µg/m³	1.5%
NF-SG-DUP1	m&p-Xylenes	594	1.73	µg/m³	1 E0/
NF-SG-02	m&p-Xylenes	603	8.67	µg/m³	1.5%
NF-SG-DUP1	o-Xylenes	302	0.867	µg/m³	7.6%
NF-SG-02	o-Xylenes	280	4.34	μg/m³	7.0%

DETERMINATION:

The data in this work order have been validated. All data are considered usable as qualified:

Sample ID	Method	<u>Analyte</u>	Original Result	Validated Result	<u>Units</u>	Reason Code
NF-SG-01	TO-15	Methyl Butyl Ketone	18.4	18.4 J-	μg/m³	10a
NF-SG-DUP1	TO-15	Acetone	844	844 J	µg/m³	20a
NF-SG-DUP1	TO-15	Ethanol	13.3	13.3 J+	µg/m³	07a
NF-SG-DUP1	TO-15	Methyl Butyl Ketone	5.11 U	5.11 UJ	µg/m³	10a

Notes: $\mu g/m^3 = micrograms per cubic meter$

Reason Codes:

107a = Target parameter is detected in laboratory method blank sample.
10a = The LCS and/or LCSD percent recovery was below the lower control limit.
20a = The reported result exceeds the calibration range of the instrument.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to measure the analyte accurately and precisely in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- J Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

- EPA. 2017a. USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review. EPA-540-R-2017-001. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- EPA. 2017b. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. EPA-540-R-2017-002. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- Stantec. 2023. Master Quality Assurance Project Plan Clatsop County EPA Brownfield Community-Wide Assessment Grant. BF- 02J17201. March.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1680890
Project Name:	North North 40 Property
Stantec Project Number:	185706185
Client:	Clatsop County
Validator Name:	Katie Doroski
Date of Validation:	December 04, 2023

SAMPLE INFORMATION:

Number of Samples:		Two	
Matrix:		Soil	
Number of Trip Blanks:		None	
Number of Equipment Blanks:		None	
Number of Field Duplicates		None	
Date of Sample Collection:		October 23, 2023	
Sample Name:		Analyses:	Batches:
NF-GP01-7'	Total So	lids (EPA 2540 G-2011)	WG2178018
	Total	Metals (EPA 6010D)	WG2176947
	Total I	Mercury (EPA 7471B)	WG2177006
NF-GP02-7'	Total So	lids (EPA 2540 G-2011)	WG2178018
	Total	Metals (EPA 6010D)	WG2176947
	Total I	Mercury (EPA 7471B)	WG2177006

GENERAL DATA VALIDATION:

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1,055	ואמוו	ative:

The laboratory did not note any issues.

Chain of Custody:

The COC is complete. All requested analyses were performed.

Sample Receipt:

The samples were received intact, properly preserved, and within the recommended temperature.

Holding Times:

All samples were analyzed within the recommended holding time.

Trip Blank Review:

There were no trip blank samples submitted.

Equipment Blank Review:

There were no equipment blank samples submitted.

Surrogates:

There were no surrogates analyzed.

Elevated Reporting Limits:

There were no elevated reporting limits.

PER ANALYSIS:

Metals, Method 6010D (Batch WG2176947)

Method Blanks:

Barium was detected at 0.107J mg/kg in the laboratory method blank. This analyte was detected in the samples at a concentration greater than 10x the blank result; no data were qualified.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

Mercury, Method 7471B (Batch WG2177006)

Method Blanks:

No analytes were detected above the MDL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

FIELD DUPLICATE REVIEW: No field duplicates were collected.

DETERMINATION:

The data in this work order have been validated. All data are considered usable as reported, no data were qualified.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- U Indicates the analyte was analyzed for but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to measure the analyte accurately and precisely in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- J Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

- EPA. 2017a. USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review. EPA-540-R-2017-001. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- EPA. 2017b. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. EPA-540-R-2017-002. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- Stantec. 2023. Master Quality Assurance Project Plan Clatsop County EPA Brownfield Community-Wide Assessment Grant. BF- 02J17201. March.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Pace Analytical
Lab SDG/Project/Work Order:	L1681546
Project Name: North North 40 Property	
Stantec Project Number:	185706185
Client:	Clatsop County
Validator Name:	Katie Doroski
Date of Validation:	December 11, 2023

SAMPLE INFORMATION:

Number of Samples:	Two	
Matrix:	Soil	
Number of Trip Blanks:	None	
Number of Equipment Blanks:	None	
Number of Field Duplicates	None	
Date of Sample Collection:	October 23, 2023	
Sample Name:	Analyses:	Batches:
NF-GP03	Hexavalent Chromium (7196A)	WG2179177
NF-GP04	Hexavalent Chromium (7196A)	WG2179177

GENERAL DATA VALIDATION:

Case Narrative:

The laboratory noted holding time exceedances.

Chain of Custody:

The COC is complete. All requested analyses were performed.

Sample Receipt:

The samples were received intact, properly preserved, and within the recommended temperature

Holding Times:

The holding time was exceeded for hexavalent chromium in samples NF-GP03 and NF-GP04. The results were qualified as estimated non-detect (UJ) in sample NF-GP03 and estimated (J) in sample NF-GP04.

Trip Blank Review:

There were no trip blank samples submitted.

Equipment Blank Review:

There were no equipment blank samples submitted.

Surrogates:

There were no surrogates run.

Elevated Reporting Limits:

There were no elevated reporting limits.

PER ANALYSIS:

Hexavalent Chromium, Method 7196A (Batch WG2179177)

Method Blanks:

No analytes were detected above the MRL in the laboratory method blank. No qualifiers are needed.

Laboratory Control Sample/Laboratory Control Sample Duplicate:

The LCS/LCSD percent recoveries were within the acceptance limits. No qualifiers are needed.

Matrix Spike Sample/Matrix Spike Sample Duplicate:

A project sample was not used for the MS/MSD. No qualifiers are needed.

FIELD DUPLICATE REVIEW: There were no field duplicates collected.

DETERMINATION:

The data in this work order have been validated. All data are considered usable as qualified:

Sample ID	Method	<u>Analyte</u>	<u>Original</u> <u>Result</u>	<u>Validated</u> <u>Result</u>	<u>Units</u>	Reason Code
NF-GP03	7196A	Hexavalent Chromium	0.687 U	18.4 J-	mg/kg	01a
NF-GP04	7196A	Hexavalent Chromium	1.89	1.89 J	mg/kg	01a

mg/kg = milligrams per kilogram

Reason Codes: 01a = The sample was prepared past the recommended holding time.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

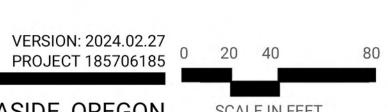
- U Indicates the analyte was analyzed for but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- UJ Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to measure the analyte accurately and precisely in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- J Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier as considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- R Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

- EPA. 2017a. USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review. EPA-540-R-2017-001. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- EPA. 2017b. USEPA National Functional Guidelines for Superfund Organic Methods Data Review. EPA-540-R-2017-002. Office of Superfund Remediation and Technology Innovation (OSRTI). November.
- Stantec. 2023. Master Quality Assurance Project Plan Clatsop County EPA Brownfield Community-Wide Assessment Grant. BF- 02J17201. March.



Seaside Affordable Housing Feasibility

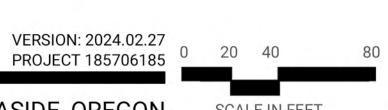




SEASIDE, OREGON



Seaside Affordable Housing Feasibility



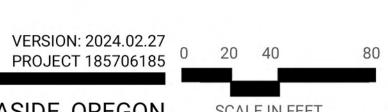


SEASIDE, OREGON



Seaside Affordable Housing Feasibility

Concept B.1





SEASIDE, OREGON