DEVELOPMENT SERVICES DEPARTMENT
ENVIRONMENTAL COORDINATOR
450 110th Ave NE., P.O. BOX 90012
BELLEVUE, WA 98009-9012

OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 21-107030-GD

Project Name/Address: Former Svc Station Remedial Excavation/14014 NE Bellevue-Redmond Rd

Planner: Drew Folsom 425-452-4441
dfolsom@bellevuewa.gov

Minimum Comment Period: 6/3/2021

Materials included in this Notice:

- [x] Blue Bulletin
- [x] Checklist
- [x] Vicinity Map
- [x] Plans
- [ ] Other:

OTHERS TO RECEIVE THIS DOCUMENT:

- [x] State Department of Fish and Wildlife
- [x] State Department of Ecology, Shoreline Planner N.W. Region
- [x] Army Corps of Engineers
- [x] Attorney General
- [x] Muckleshoot Indian Tribe

Development Services

SEPA Environmental Checklist

The City of Bellevue uses this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions

The checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully and to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions.

You may respond with “Not Applicable” or "Does Not Apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies and reports. Please make complete and accurate answers to these questions to the best of your ability in order to avoid delays. For assistance, see SEPA Checklist Guidance on the Washington State Department of Ecology website.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The city may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Background

1. Name of proposed project, if applicable Former Service Station 72864
2. Name of applicant Wesley Willow
3. Contact person Wesley Willow Phone 724-612-0003
4. Contact person address 2280 Market St, Ste 300, Riverside CA 92501
5. Date this checklist was prepared 3/31/2021
6. Agency requesting the checklist Clearing and Grading

7. Proposed timing or schedule (including phasing, if applicable)

Work to occur between June and September.
1. Installation of BMPs, 2. excavation, backfill and compaction, 3. repaving, and 4. removal of BMPs

8. Do you have any plans for future additions, expansion or further activity related to or connected with this proposal? If yes, explain.

No

9. List any environmental information you know about that has been prepared or will be prepared, that is directly related to this proposal.

The site is a former service station that contained gasoline, used oil and heating oil underground storage tanks. The tanks have been removed and several environmental remedial activities have occurred at the site. For detailed information please refer to the December 23, 2009 Soil Confirmation Sampling Report and Remedial Excavation Work Plan by Kleinfelder (Attachment 1)

10. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No

11. List any government approvals or permits that will be needed for your proposal, if known.

City of Bellevue Clearing and Grading Permit, and Discharge Permit to the City of Bellevue sanitary sewer system.

12. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Environmental remedial excavation. The total surface area disturbance is 950 square feet and the total volume being dug up and replaced is 385 cubic yards. The original grade and pavement type will be kept. Soil will be sent to a licensed disposal facility and replaced with clean backfill.

13. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and the section, township and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

14014 NE Bellevue-Redmond Road, Bellevue, WA 98007. The site is located on Parcel Number 2725059211. Proposed work is in the currently paved areas of the site.

Environmental Elements

Earth

1. General description of the site:
   - ☑ Flat
   - ☐ Rolling
   - ☐ Hilly
   - ☐ Steep Slopes
   - ☐ Mountainous
   - ☐ Other _____

2. What is the steepest slope on the site (approximate percent slope)? _____

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3. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The Site is generally underlain by varying mixtures of sand with gravel, silty sand, and sand to 20 feet below ground surface (bgs), the maximum depth explored at the Site.

4. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No

5. Describe the purpose, type, total area and approximate quantities and total affected area of any filling, excavation and grading proposed. Indicate the source of the fill.

The total surface area disturbance is 950 square feet and the total volume being dug up and replaced is 385 cubic yards. Fill will be type 17 gravel.

6. Could erosion occur as a result of clearing, construction or use? If so, generally describe.

No, work is in currently paved areas only and will be restored to same pavement type after completion of the work.

7. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? No changes to current.

8. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

Refer to CSWIP short form. Use of BMPs.

Further mitigated per BCC 23.76.090
"Erosion and Sedimentation Control" DF

Air

1. What types of emissions to the air would result from the proposal during construction, operation and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Dust, exhaust from construction equipment and petroleum hydrocarbon related volatile organic compounds (VOCs).

2. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No

3. Proposed measures to reduce or control emissions or other impacts to air, if any.

Cover stockpiles when not in use with plastic. Monitor work area air for VOCs with photoioniztion detector (PID).

Water

1. Surface Water
   a. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

      Valley Creek runs north to south along the eastern property boundary. The northern portion is exposed and the southern portion is contained in a culvert.

   b. Will the project require any work over, in or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

      Only one excavation is within the 50 foot buffer of the open stream segment and it is within a currently paved area. No work is within the 10 foot setback of the contained segment.

   c. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of the fill material.

      None

   d. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose and approximate quantities, if known.

      No

   e. Does the proposal lie within a 100-year floodplain? No
      If so, note the location on the site plan.

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f. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No

2. Ground Water

a. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No

b. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None

3. Water Runoff (including stormwater)
   a. Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

      No changes to current storm water system

   b. Could waste materials enter ground or surface waters? If so, generally describe.

      No

   c. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

      No

   Indicate any proposed measures to reduce or control surface, ground and runoff water, and drainage pattern impacts, if any.

   No changes to current storm water system

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Plants

1. Check the types of vegetation found on the site:

   - [x] deciduous tree: alder, maple, aspen, other _____
   - [x] evergreen tree: fir, cedar, pine, other _____
   - [x] shrubs
   - [x] grass
   - [ ] pasture
   - [ ] crop or grain
   - [ ] orchards, vineyards or other permanent crops
   - [ ] wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other _____
   - [ ] water plants: water lily eelgrass, milfoil, other _____
   - [ ] other types of vegetation _____

2. What kind and amount of vegetation will be removed or altered?

   None

3. List any threatened and endangered species known to be on or near the site.

   None known

4. Proposed landscaping, use of native plants or other measures to preserve or enhance vegetation on the site, if any.

   No changes to current landscaping.

5. List all noxious weeds and invasive species known to be on or near the site.

None known

Animals

1. List any birds and other animals which have been observed on or near the site or are known to be on or near the site. Examples include:

   Birds: ☐hawk, ☐heron, ☐eagle, ☑songbirds, ☐other _____

   Mammals: ☐deer, ☐bear, ☐elk, ☐beaver, ☐other None observed

   Fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other Creek may contain fish

2. List any threatened and endangered species known to be on or near the site.

None known

3. Is the site part of a migration route? If so, explain.

None known

4. Proposed measures to preserve or enhance wildlife, if any.

No changes to current.

5. List any invasive animal species known to be on or near the site.

None known

Energy and Natural Resources

1. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

No changes to current.

2. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No changes to current.

3. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

No changes to current.

Environmental Health

1. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill or hazardous waste, that could occur as a result of this proposal? If so, describe.

Work involves the excavation, transportation and disposal of approximately 385 cubic yards of none-hazardous soils impacted with petroleum hydrocarbons.

a. Describe any known or possible contamination at the site from present or past uses.

None-hazardous soils and groundwater impacted with petroleum hydrocarbons from prior site storage of gasoline, heating oil and used oil in underground storage tanks. The storage tanks have been removed from the site and there are currently no known storage tanks at the site.

b. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

c. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

None known.

d. Describe special emergency services that might be required.

None known.

e. Proposed measures to reduce or control environmental health hazards, if any.

Cover stockpiled soils when not in use. Follow CSWIP short form and BMPs.

2. Noise

a. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Traffic on secondary streets. Noise from construction equipment during normal business hours for the duration of the work.

b. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short term noise from construction equipment (excavator) and haul trucks.

c. Proposed measures to reduce or control noise impacts, if any.

Operation during normal business hours. Use of equipment in good working condition.

Further mitigated per BCC 9.18
"Noise Control" DF

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Land and Shoreline Uses

1. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

   Mixed commercial and residential. No changes to current land use.

2. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to non-farm or non-forest use?

   No.

   a. Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling and harvesting? If so, how?

      No

3. Describe any structures on the site.

   Single story brick building with 3 garage bays and a canopy.

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4. Will any structures be demolished? If so, what?

No

5. What is the current zoning classification of the site? BR-CR

6. What is the current comprehensive plan designation of the site? BelRed Subarea Plan

7. If applicable, what is the current shoreline master program designation of the site?

None

8. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Yes, Valley Creek.

9. Approximately how many people would reside or work in the completed project? N/A

10. Approximately how many people would the completed project displace? None

11. Proposed measures to avoid or reduce displacement impacts, if any.

N/A

12. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

N/A no changes to current.

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13. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any.

N/A no changes to current.

Housing

1. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A - None

2. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A - None

3. Proposed measures to reduce or control housing impacts, if any.

N/A - None

Aesthetics

1. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

N/A - None

2. What views in the immediate vicinity would be altered or obstructed?

N/A - None

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3. Proposed measures to reduce or control aesthetic impacts, if any

N/A - None

Light and Glare

1. What type of light or glare will the proposal produce? What time of day would it mainly occur?

N/A - None

2. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A - None

3. What existing off-site sources of light or glare may affect your proposal?

N/A - None

4. Proposed measures to reduce or control light and glare impacts, if any.

N/A - None

Recreation

1. What designated and informal recreational opportunities are in the immediate vicinity?

N/A - None

2. Would the proposed project displace any existing recreational uses? If so, describe.

N/A - None

3. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.

N/A - None

Historic and Cultural Preservation

1. Are there any buildings, structures or sites located on or near the site that are over 45 years old listed in or eligible for listing in national, state or local preservation registers located on or near the site? If so, specifically describe.

N/A - None

2. Are there any landmarks, features or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

N/A - None

3. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

N/A - None

4. Proposed measures to avoid, minimize or compensate for loss, changes to and disturbance to resources. Please include plans for the above and any permits that may be required.

N/A - None

Transportation

1. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

No changes to current.

2. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Yes, nearest buss stop is on the other side of NE Bellevue-Redmond Road

3. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

No changes to current.

4. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

N/A - None

5. Will the project or proposal use (or occur in the immediate vicinity of) water, rail or air transportation? If so, generally describe.

No

6. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

No changes to current.

7. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No

8. Proposed measures to reduce or control transportation impacts, if any.

No changes to current.

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Public Service

1. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No

2. Proposed measures to reduce or control direct impacts on public services, if any.

No changes to current.

Utilities

1. Check the utilities currently available at the site:

- ☑ Electricity
- ☑ natural gas
- ☑ water
- ☑ refuse service
- ☑ telephone
- ☑ sanitary sewer
- ☐ septic system
- ☐ other

2. Describe the utilities that are proposed for the project, the utility providing the service and the general construction activities on the site or in the immediate vicinity which might be needed.

No changes to current.

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Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature _____

Name of signee Wesley Willow

Position and Agency/Organization Project Manager at Kleinfelder

Date Submitted 3/31/2021

Attachment 1
Soil Confirmation Sampling Report and Remedial Excavation Work Plan

SOIL CONFIRMATION SAMPLING REPORT AND REMEDIAL EXCAVATION WORK PLAN FORMER EXXON SERVICE STATION 72864 14014 NORTHEAST BELLEVUE-REDMOND ROAD BELLEVUE, WASHINGTON

December 23, 2020

SOIL CONFIRMATION SAMPLING REPORT
AND REMEDIAL EXCAVATION WORK PLAN
FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

Prepared for:

LUST Coordinator
Washington Department of Ecology
Northwest Regional Office
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December 23, 2020

Kleinfelder Project No. 20171407.001A

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1 INTRODUCTION

On behalf of ExxonMobil Environmental and Property Solutions (E&PS), Kleinfelder, Inc. (Kleinfelder) has prepared this *Soil Confirmation Sampling Report and Remedial Excavation Work Plan* for former Exxon Service Station 72864 (Site). This report summarizes results of confirmation soil sampling conducted between August 7, 2019 and August 11, 2020, compares soil sample analytical results to the Model Toxics Control Act (MTCA) criteria and proposes a remedial action.

1.1 REPORT ORGANIZATION

The remainder of this Report is organized as follows:

Section 2.0 – Site Description and Background: Provides a description of the Site, a discussion of Site history, operations, discussion of the regional and Site geology and hydrogeology, and a summary of environmental assessment and remedial activities conducted at the Site.

Section 3.0 – Confirmation Borings and Soil Sampling: Provides a summary of confirmation boring investigation, soil sampling and a comparison to MTCA criteria.

Section 4.0 – Proposed Remedial Action: Provides the rationale, methods and sampling plan for the proposed soil excavation activities to remove soils from the Site with concentrations that exceeded MTCA Method A criteria.

Section 5.0 – Conclusion: A summary of results collected to date at the Site and a summary of proposed remedial action.

Section 6.0 – Limitations: Provides a description of applicable limitations regarding the preparation and use of this report.

Section 7.0 – References: A list of applicable references cited in this report.

2 SITE DESCRIPTION AND BACKGROUND

This section provides a description of land use; and topographic, geologic, and hydrogeologic settings of the Site. These descriptions were summarized from published literature cited in text and from previously published Site investigations.

2.1 SITE LOCATION, HISTORY AND CURRENT LAND USE

Former Exxon Service Station 72864 is located at 14014 Northeast Bellevue-Redmond Road in Bellevue, Washington, on the northeastern corner of the Northeast Bellevue-Redmond Road and 140th Avenue Northeast intersection (Figures 1 and 2).

Site usage history is as follows (Farallon Consulting [Farallon], 2011 and Environmental Resolutions, Inc. [ERI], 2009a):

- Exxon Corporation (Exxon) operated the service station at the Site from 1971 to 1992;
- British Petroleum Exploration and Oil Inc. (BP) operated the service station from 1992 to 1994;
- TOSCO Corporation (TOSCO) operated the service station from 1994 to 2001;
- ConocoPhillips Company operated the service station from 2001 to 2005;
- Suncor Holdings Corporation II, LLC owned the site from 2005 to 2008 and temporarily closed the UST system in September of 2006; and
- Trend Imports operated the Site as a used car dealership from 2008 to current.

Site underground storage tank (UST) system history is as follows (Farallon, 2011 and ERI, 2009a):

- Exxon removed one 10,000-gallon gasoline UST, one 8,000-gallon gasoline UST, one 6,000-gallon gasoline UST, one 1,000-gallon used oil UST, one unknown capacity heating oil UST, and one 2,000-gallon unknown contents holding tank in 1985;
- Exxon installed one 12,000-gallon gasoline UST, one 10,000-gallon gasoline UST, one 8,000-gallon gasoline UST, and one 1,000-gallon used oil UST in 1985;
- Exxon removed one 1,000-gallon used oil UST and installed one 1,000-gallon used oil UST in 1991; and
- TOSCO removed a hoist from the service station building in 1999;
- TOSCO removed the dispenser island and associated piping in 2000; and

- Trend Imports removed one 12,000-gallon gasoline UST, one 10,000-gallon gasoline UST, one 8,000-gallon gasoline UST, and one 1,000-gallon used oil UST and associated piping in 2010.

The Site is currently utilized as a used car lot and is surrounded by a mix of commercial and residential properties as follows:

- South: Residential
- West: Commercial – gas station and strip mall
- North: Commercial – restaurant
- East: Commercial – strip mall

2.2 REGIONAL GEOLOGY AND HYDROGEOLOGY

Surficial deposits in the area consist of Vashon recession outwash deposits and Vashon till. Vashon recession outwash deposits are considered a minor aquifer in the Puget Lowland that was formed during the proglacial and ice-marginal environments. The Vashon recession outwash deposits are primarily comprised of stratified sand and gravel, and moderately- to well-sorted, well bedded silty sand to silty clay. Vashon till is considered semi-confining and is a source of water for shallow domestic wells in the Puget Lowland region. Vashon till is primarily comprised of unsorted and unstratified glacial deposits varying widely in size. The primary deep aquifer in the area is the Puget Aquifer which is comprised of undifferentiated glacial and interglacial deposits that are generally greater than 400 feet thick (United States Geological Survey [USGS], 1998).

2.3 LOCAL GEOLOGY AND HYDROGEOLOGY

The Site lies at an elevation of approximately 55 feet above mean sea level (msl). Topography in the vicinity of the site slopes southwest following Valley Creek which traverses the eastern side of the Site. The nearest surface water bodies are Valley Creek, located on-Site; and Kelsey Creek, located approximately 150 feet south which Valley Creek flows into (Figure 1).

Previous Site assessment activities indicate that the Site is generally underlain by varying mixtures of sand with gravel, silty sand, and sand to 20 feet below ground surface (bgs), the maximum depth explored at the Site. Historical borehole and monitoring well logs are included as Appendix A and well construction details are provided in Table 1.

Groundwater monitoring and sampling have been performed at the Site since November 1991. During the monitoring program, the depth to water has fluctuated from approximately 4.13 to 6.78 feet bgs (Table 2). The local direction of groundwater flow has generally been towards the southwest (Kleinfelder, 2020).

2.4 HISTORICAL ENVIRONMENTAL SITE ACTIVITIES

The following sections describe historical assessment and remedial activities conducted at the Site.

2.4.1 Environmental Assessment Summary

Well construction details are provided in Table 1. Historical groundwater monitoring results are presented in Table 2. Historical soil sampling results are presented in Tables 3 through 8. Groundwater monitoring wells and historical assessment locations are shown in Figure 2.

In October 1991 and January 1992, Science and Engineering Analysis Corporation (SEACOR) advanced 11 soil borings to depths ranging from 19 to 20 feet bgs. The soil borings were subsequently completed as monitoring wells MW1 to MW11 (SEACOR, 1992).

In October of 1995 and March of 1996, SEACOR advanced six air sparge wells (AS1 to AS6) to a depth of 20 feet bgs (SEACOR, 1995 and SEACOR, 1996a).

In December 1996, SEACOR abandoned three on-Site monitoring wells (MW7, MW9 and MW11) (SEACOR, 1996b).

In November 1999, EA Engineering, Science and Technology (EA) advanced six soil borings (S1 to S6) to depths ranging from 1.5 to 8 feet bgs (EA, 2000a).

In October 2001, ERI advanced two soil borings to a depth of 20 feet bgs. The soil borings were subsequently completed as monitoring wells MW12 and MW13 (ERI, 2002).

In June 2007, ERI advanced seven soil borings (B1 to B7) to depths ranging from 4 to 20 feet bgs. Soil borings B1 and B7 were subsequently completed as monitoring wells MW14 to MW15, respectively (ERI, 2007a).

In September 2007, ERI advanced 14 soil borings (B8 to B21) to depths ranging from 5.5 to 15 feet bgs (ERI, 2007b).

In January and May 2008, ERI advanced seven soil boring (B22 to B28) to depths ranging from 5 to 15.5 feet bgs. Soil boring B28 was subsequently completed as monitoring well MW16 (ERI, 2008).

In May 2009, ERI advanced three soil borings (B29 to B31) to depths ranging from 14 to 16 feet bgs. Soil borings B29 to B31 were subsequently completed as soil vapor extraction wells SVE1 to SVE3, respectively (ERI, 2009a).

In June 2016, Cardno rehabilitated MW14, abandoned MW15, and advanced soil boring B32 to a depth of 13 feet bgs. Soil boring B32 was subsequently completed as MW15A (Cardno, 2016).

Groundwater monitoring and sampling have been performed at the Site since November 1991.

2.4.2 Remediation Summary

On August 7, 1991, SEACOR excavated and removed a used oil UST from the site and collected three soil samples from the excavation margins. On August 23, 1991, the floor sample was subsequently over-excavated, and one additional sample was collected from the floor. Approximately 20 cubic yards (yd^3) (estimated at 28 tons) of soil was removed from the Site for off-Site disposal (SEACOR, 1991a). Manifests were not available for the 1991 excavation events and actual soil mass extracted could not be confirmed.

On August 20, 1991, SEACOR advanced an excavation to install a used oil UST to replace the one removed earlier in the month. Soil samples were collected from the excavation margins. Approximately 40 yd^3 (estimated at 56 tons) of soil was removed from the Site for off-Site disposal (SEACOR, 1991b). Manifests were not available for the 1991 excavation events and actual soil mass extracted could not be confirmed.

In 1996 an air sparge and soil vapor extraction system was installed and operated at the Site until 1999. The system utilized six air sparge wells (AS1 to AS6) and four shallow soil vapor extraction (SVE) trenches. The system removed approximately 4,290 pounds of total petroleum hydrocarbons (TPH) as soil vapor from the Site (ERI, 2008).

In April 1999, ERI observed the excavation and removal a hydraulic hoist located inside of the service station building. One composite sample was collected from the extents of the excavation. Approximately 4 yd^3 (estimated at 5.6 tons) of soil was removed from the Site (ERI, 1999).

In April 2000, EA conducted a remedial excavation in the area of the northern and southern pump islands. Soil samples were collected from the margins of the excavation. Approximately 762 tons of soil was removed from the Site for off-Site disposal (EA, 2000b).

In June 2007, ERI conducted a total fluids recovery (TFR) event on MW1. Approximately 500 gallons of water was removed from MW1, treated on-Site, and discharged to the sanitary sewer under King County Industrial Waste Discharge Permit 50142-01. Vapor samples collected during the event were not detected for benzene, toluene, ethylbenzene, xylenes (BTEX) and C4 to C10 hydrocarbons (ERI, 2007c).

In July and August 2009, ERI conducted an air sparge and SVE feasibility test at the Site. The test removed approximately 901 gallons of water from MW1 and SVE2, approximately 0.05 pounds of TPH as gasoline (TPHg) and 0.0005 pounds of benzene as vapor from MW1, approximately 0.04 pounds of TPHg and 0.0005 pounds of benzene as vapor from SVE2. The test results were considered to be inconclusive as to the feasibility of air sparge and soil vapor extraction as a remedial remedy at the Site (ERI, 2009b).

In October 2010, Farallon observed the removal and excavation of three gasoline USTs, one used oil UST and associated piping. Soil samples were collected from the extents of the excavations. Approximately 247 tons of soil was removed from the Site (Farallon, 2011)

In total, approximately 1,098 tons of soil, 1,401 gallons of groundwater, and 4,290 pounds of TPH as soil vapor was removed from the site from the above-described remedial activities from 1991 to 2010.

3 CONFIRMATION BORINGS AND SOIL SAMPLING

This section presents the investigation methodology including utility clearance, drilling, borehole logging and sampling. The boreholes were advanced to confirm current soil concentrations of chemicals of concern (CoCs) at locations which had historically exceed MTCA Method A criteria. The boreholes were advanced at locations and sampled at depths as close as practical to the historically exceeding soil sample locations and depths.

3.1 UTILITY CLEARANCE

Before commencing work, Kleinfelder marked the well and borehole locations and notified the Utility Underground Location Center (UULC). All borehole locations were pre-cleared by hand auger to 4 feet bgs or until hand auger refusal to visually confirm the absence of subsurface utilities and/or potential buried infrastructure.

3.2 BOREHOLE ADVANCEMENT AND SOIL SAMPLING

Nineteen confirmation soil borings (KLF-1 to KLF-11, KLF-11A, KLF-12, KLF-12A, KLF-13 to KLF-15, KLF-15A and KLF-16) were advanced between August 7, 2019 and August 11, 2020 to depths ranging from 3.5 to 16 feet bgs. Borings were pre-cleared by hand auger up to 4 feet bgs and completed by hollow stem auger (HSA) with a CME 95 Track drill rig (operated by Boretec) or a MiniTrack drill rig (Operated by Geologic Drill Partners). Borehole locations are included in Figure 3.

3.2.1 Borehole Logging

Soil was screened from the boreholes at approximately 2-foot intervals. Soil was described and logged under the supervision of a Professional Engineer (PE) licensed in the State of Washington using the Unified Soil Classification System (USCS). For each soil strata, field estimates were made of soil type, density and consistency, moisture content, and grading. Soil was screened for the presence of VOCs using a photoionization detector (PID) that was calibrated to a 100 part-per-million by volume (ppmv) hexane standard. Soil boring logs are included as Appendix A.

Soil borings were backfilled with hydrated bentonite and finished at the surface to match the surrounding surface. Soil cuttings and fluids generated during drilling and equipment decontamination were placed in Department of Transportation (DOT)-approved 55-gallon drums

for transportation and disposal at an appropriately licensed disposal facility. Four drums were removed from the Site for disposal on May 6, 2020 with three drums of soil remaining on-Site pending transportation and disposal. Waste disposal documents are included in Appendix B.

3.2.2 Soil Sampling

Laboratory-supplied TerraCores® and one laboratory-supplied 125 milliliter (mL) glass jar with Teflon®-sealed plastic lids were used to collect samples for analysis of BTEX, TPHg, volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH). For analysis of polycyclic aromatic hydrocarbons (PAH), one additional laboratory-supplied 125 mL glass jar with Teflon®-sealed plastic lids was used to collect samples. Soil samples were labeled and placed on ice for subsequent delivery to a state-accredited laboratory for analysis.

The analytical tests performed on the soil samples consisted of one or more of the following:

- BTEX using United States Environmental Protection Agency (USEPA) Method 8260B;
- TPHg using Washington Department of Ecology (WDE) Method NWTPH-Gx;
- PAH using USEPA Method 8270D;
- VPH using WDE Method VPH; and
- EPH using WDE Method EPH.

Sample logging, labeling, handling, and shipping were performed consistent with the protocols presented in the WDE *Guidance for Remediation of Petroleum Contaminated Sites* (WDE, 2016). Sample chain-of-custody procedures were performed consistent with USEPA SW-846 protocols. Laboratory analytical reports for soil samples collected are included in Appendix C.

Soil sampling equipment was cleaned in a detergent solution and double-rinsed with clean potable water followed by a distilled water rinse before each sample was collected.

3.3 DISCUSSION OF HISTORICAL AND CURRENT ANALYTICAL RESULTS

The soil analytical results were compared to the following criteria:

- MTCA Method A.

Summaries of historical assessment and the August 7, 2019 and August 11, 2020 confirmation soil sampling analytical results are presented in Tables 3 through 8. A summary of soil sampling locations which have been excavated and removed from the Site is included in Table 9. A summary of confirmation sampling results is included as Table 10 and shown on Figure 3. Soil

samples remaining on-Site and which have not been superseded by more recent sampling (confirmations sampling) and yet exceed MTCA Method A criteria include the following locations:

- EE-3, 35 milligrams per kilogram (mg/kg) TPHg, collected at an unknown depth;
- KLF-4, 160 mg/kg TPHg, collected at 7.0 feet bgs;
- KLF-5, 120 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-9, 380 mg/kg TPHg and 0.033 mg/kg benzene collected at 5.0 feet bgs;
- KLF-10, 66 mg/kg TPHg, collected at 4.5 feet bgs and 59 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-15A, 690 mg/kg TPHg, 0.72 mg/kg benzene, 7.5 mg/kg ethylbenzene, 11 mg/kg total xylenes, collected at 10.0 feet bgs; and
- KLF-16, 0.082 mg/kg benzene and 5.29 mg/kg naphthalene, collected at 6.0 feet bgs, and 2.2 mg/kg benzene and 13 mg/kg total xylenes collected at 7.0 feet bgs.

The following section summarizes the proposed remedial action to address the soil samples remaining on-Site.

4 PROPOSED REMEDIAL ACTION

Kleinfelder proposes to advance remedial excavations to remove soils from the Site with concentrations that exceed MTCA Method A criteria as follows (Table 10, Figure 3):

- EE-3, 35 milligrams per kilogram (mg/kg) TPHg, collected at an unknown depth;
- KLF-4, 160 mg/kg TPHg, collected at 7.0 feet bgs;
- KLF-5, 120 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-9, 380 mg/kg TPHg and 0.033 mg/kg benzene collected at 5.0 feet bgs;
- KLF-10, 66 mg/kg TPHg, collected at 4.5 feet bgs and 59 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-15A, 690 mg/kg TPHg, 0.72 mg/kg benzene, 7.5 mg/kg ethylbenzene, 11 mg/kg total xylenes, collected at 10.0 feet bgs; and
- KLF-16, 0.082 mg/kg benzene and 5.29 mg/kg naphthalene, collected at 6.0 feet bgs, and 2.2 mg/kg benzene and 13 mg/kg total xylenes collected at 7.0 feet bgs.

The proposed excavation locations, extents, depths, and volumes are presented on Figure 4. The proposed scope of work is described in further detail in the following sections.

4.1 PRE-FIELD ACTIVITIES

4.1.1 Site-Specific Health and Safety Plan

A Site-Specific Health and Safety Plan (HASP) will be prepared prior to implementing field activities to address the health and safety of Kleinfelder's workers and provide contingency plans for emergencies that may arise during the field activities. The HASP will provide guidelines for personal protection equipment and safety procedures to be used by Kleinfelder's staff during field operations.

4.1.2 Utility Owner Notification and Geophysical Survey

Kleinfelder will visit the Site to mark the proposed excavations locations. As required by State law, the UULC will be notified to obtain clearance for public underground utilities. UULC will be contacted after the boring locations are marked and a minimum of 48 hours (i.e., two business days) prior to initiating subsurface activities.

Kleinfelder will contract a geophysical services provider to locate and mark detectable utility lines and other identifiable subsurface features at each of the proposed excavations.

4.1.3 Permitting

A Clearing and Grading permit will be obtained from the City of Bellevue, Washington prior to commencement of the remedial excavation. There are no other known permits required for the remedial excavation.

4.2 SITE PREPARATION AND CONTROLS

4.2.1 Erosion and Sediment Control

Erosion and sediment control will be conducted in accordance with the City of Bellevue, *Washington Clearing and Grading Development Standards* and an approved Construction Stormwater Pollution Prevention Plan (CSWPPP) Short Form for Small Construction Projects (City of Bellevue, 2017).

4.2.2 Surface Obstruction Removal

Prior to initiating the remedial excavations, asphalt and concrete paving will be removed from the areas of the excavation and transported off-Site for recycling.

4.3 REMEDIAL EXCAVATION

Six remedial excavations are proposed to remove soils from the Site with concentrations that exceed MTCA Method A criteria. The proposed excavation locations, extents, depths, and volumes are presented on Figure 4.

Excavated soil will be screened in the field using a PID equipped with a 10.6 electron volt detector lamp calibrated to a 100-ppmv hexane standard. To perform this screening, soil collected from the excavation by an excavator bucket or stockpile with a shovel will be placed in a re-sealable plastic bag that will then be sealed, and after allowing approximately 10 minutes for volatilization to occur, the total organic vapor concentration in the head space of the plastic bag will be

measured by unsealing a small length of the bag seal, inserting the probe tip of the PID, and recording the PID reading onto the field excavation log.

Confirmation soil samples will be collected from the margins of the excavation (Figure 5) for analysis of TPHg, BTEX and naphthalene. Confirmation soil samples that exceed MTCA Method A criteria will be over excavated until the MTCA Method A criteria are not exceeded, physical conditions may limit the extension of the excavation, or the excavation reaches a property boundary, in which case plastic sheeting will be placed as a barrier between backfilled material and existing in-place soils with concentrations exceeding MTCA Method A criteria.

Excavated soils for potential re-use will be stockpiled separately based on observations indicative of potential contaminant impact, such as staining, odors and PID readings. Stockpiled soil for potential re-use will be analyzed for TPHg, BTEX and naphthalene. Soil that is stockpiled for disposal will be removed from the Site without confirmation sampling.

4.3.1 Excavation Margin Screening and Sampling Protocol

Excavation margins will be logged for soil type and observations indicative of potential contaminant impact, such as staining, odors and PID readings. Excavations will be sampled in accordance with *Guidance for Remediation of Petroleum Contaminated Sites* Section 6.8.3 Soil Characterization – Sampling Excavation Margins (WDE, 2016).

Excavation walls will be screened and sampled as follows (see Figure 5):

- Segmented every 20 feet of horizontal length;
- Screening every five feet of vertical depth (depth interval) for each segment; and
- One confirmation sample per segment from the depth with the highest PID result.

Excavation floors will be screened and sampled as follows:

- Screened every 100 square feet (ft2); and
- One confirmation sample collected every 400 ft2 from the highest PID result.

4.3.2 Stockpiles for Potential Re-Use Screening and Sampling Protocol

Excavation soil stockpile for potential re-use will be sampled as follows:

yd^3 of Soil	Number of Samples
0 to 100	3
101 to 500	5
501 to 1,000	7
1,001 to 2,000	10
Greater than 2,000	10 plus 1 for each additional 500 yd^3

Soils stockpiled for potential re-use will only be re-used if they meet the *Guidance for Remediation of Petroleum Contaminated Sites* Table 12.1 Guidelines for Reuse of Petroleum-Contaminated soils (WDE, 2016).

4.4 SAMPLE PRESERVATION, HANDLING AND CHEMICAL ANALYSES

Laboratory-supplied TerraCores® and one laboratory-supplied 125 mL glass jar with Teflon®-sealed plastic lids will be used to collect samples for analysis of BTEX and TPHg. For analysis of naphthalene, one additional laboratory-supplied 125 mL glass jar with Teflon®-sealed plastic lids will be used to collect samples. Soil samples will be labeled and placed on ice for subsequent delivery to a state-accredited laboratory for analysis.

The analytical tests to be performed on the soil samples will consisted of the following:

- BTEX using USEPA Method 8260B;
- TPHg using WDE Method NWTPH-Gx; and
- Naphthalene using USEPA Method 8270D.

4.5 QUALITY ASSURANCE / QUALITY CONTROL

Field quality assurance/quality control (QA/QC) samples proposed for collection during the remedial activity include included quality control equipment blanks (QCEB) collected by pouring laboratory-supplied reagent-grade water over the cleaned sampling tools into laboratory-supplied sample containers will be collected at a rate of one per day. Extra soil volume will be collected at a rate of approximately one per 20 confirmation samples for the analytical laboratory to use for matrix spike/matrix spike duplicate (MS/MSD) analyses.

4.6 SOIL TRANSPORTATION AND DISPOSAL

Soil analytical results from confirmation samples and samples for evaluation of potential re-use will be used to profile soil waste that may need to be transported off-Site for disposal. The sampling frequency and sample analysis for waste profiling will be set in consultation with the selected state licensed disposal or recycling facility, and additional soil samples may need to be collected or additional compounds analyzed. After receipt and review of the analytical results and completion of profiling, the soil stockpiled for removal will be transported from the Site for disposal or recycling at the selected State-licensed facility. Transported soil will be tracked on a manifest or bill of lading waste docket.

4.7 IMPORTED FILL SOIL

Approximately 375 yd^3 of soil may need to be imported to the Site to replace soils removed from the Site. Soil imported to the Site for fill material will be obtained from a certified clean fill source.

4.8 BACKFILLING AND COMPACTION

Excavations will be backfilled and compacted in accordance with Clearing and Grading permit requirements and the City of Bellevue, Washington *Clearing and Grading Development Standards* (City of Bellevue, 2017).

4.9 EQUIPMENT CLEANING

Soil sampling equipment will be cleaned as follows.

- Internal and external surfaces of the equipment will be cleaned using potable water and non-phosphate detergent. The equipment will be scrubbed as necessary to remove visible particles.
- Internal and external surfaces of the equipment will then be rinsed with potable water until the rinsate appears completely clear.

Heavy equipment that comes into contact with potentially contaminated soil will be cleaned prior to backfilling. Equipment such as heavy equipment tracks, bulldozer blades and excavator buckets will be cleaned as follows.

- Soil from external surfaces of the equipment will be removed by physical methods.

Decontamination fluids will be stored in DOT-approved, labeled, 55-gallon steel drums and disposed of at a state licensed facility. Transported will be tracked on a manifest or waste docket based on the results of the waste profile.

4.10 FIELD RECORDS

Electronic daily field records (DFRs) will be used to document field activities. The DFR will provide a daily record of sample locations, notable events, observations, and measurements taken during field work. The entries are to provide factual, detailed, and objective information. Site photographs will be taken, described, and documented. Other information such as weather conditions, instrument calibrations, field measurements, and deviations from this work plan, if any, will be documented in the DFR on a daily basis.

4.11 EXCAVATION REPORT

A remedial excavation report summarizing the proposed remedial excavation activities will be prepared and submitted to WDE. The report will include the following information:

- Description of the work performed including field methods and calibration of equipment.
- Narrative of unforeseen problems and deviations from the Work Plan.
- Discussion of lithologic and hydrogeologic observations.
- Excavation logs.
- Tabulated analytical results.
- Scaled site plans identifying excavation margins, sample locations, sample depths, sample identifications, and concentrations of chemicals detected.
- Appended copies of laboratory analytical reports.
- QA/QC samples collected and analyzed and procedures, and data validation.
- Description of procedures used for decontamination of equipment and disposal of wastes and copies of waste disposal manifests.
- Conclusions and recommendations for case closure, if applicable.

5 CONCLUSION

Between August 7, 2019 and August 11, 2020, 19 confirmation soil borings (KLF-1 to KLF-11, KLF-11A, KLF-12, KLF-12A, KLF-13 to KLF-15, KLF-15A and KLF-16) were advanced to depths ranging from 3.5 to 16 feet bgs.

Soil samples remaining on-Site and which have not been superseded by more recent sampling and exceed MTCA Method A criteria include the following:

- EE-3, 35 milligrams per kilogram (mg/kg) TPHg, collected at an unknown depth;
- KLF-4, 160 mg/kg TPHg, collected at 7.0 feet bgs;
- KLF-5, 120 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-9, 380 mg/kg TPHg and 0.033 mg/kg benzene collected at 5.0 feet bgs;
- KLF-10, 66 mg/kg TPHg, collected at 4.5 feet bgs and 59 mg/kg TPHg, collected at 6.0 feet bgs;
- KLF-15A, 690 mg/kg TPHg, 0.72 mg/kg benzene, 7.5 mg/kg ethylbenzene, 11 mg/kg total xylenes, collected at 10.0 feet bgs; and
- KLF-16, 0.082 mg/kg benzene and 5.29 mg/kg naphthalene, collected at 6.0 feet bgs, and 2.2 mg/kg benzene and 13 mg/kg total xylenes collected at 7.0 feet bgs.

Based on the results of the confirmation soil assessment, Kleinfelder proposes to conduct a remedial excavation to remove soils from the Site which exceed the MTCA Method A criteria. A summary of the proposed remedial excavations is provided below:

- Six remedial excavation locations totaling approximately 385 yd^3 in volume;
- Excavation walls segmented every 20 feet horizontally with screening every five feet of depth with one sample collected from the highest screening result from each segment;
- Excavation floors will be screened every 100 ft^2 with a sample collected every 400 ft^2 from the highest screening result from each excavation;
- Excavation soil stockpiled for potential re-use will be sampled at a frequency and compared to the re-use criteria in accordance with the *Guidance for Remediation of Petroleum Contaminated Sites* (WDE, 2016); and
- Soil imported to the Site for fill material will be from a certified clean source.

6 LIMITATIONS

Kleinfelder performed the services for this project under the Standard Procurement Agreement with Procurement, a division of ExxonMobil Global Services Company (signed on July 8, 2016). Kleinfelder states that the services performed are consistent with professional standard of care defined as that level of services provided by similar professionals under like circumstances. This report is based on the regulatory standards in effect on the date of the report. It has been produces for the primary benefit of ExxonMobil Global Services Company and its affiliates.

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FIGURES

SOURCE: U.S.G.S. Topo, 7.5' Topographic series, Kirkland and Mercer Island, Washington Quadrangles 2014.

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2,000 1,000 0 2,000

APPROXIMATE SCALE (feet)

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PROJECT:	20171407
DRAWN:	07/2020
DRAWN BY:	DMF
CHECKED BY:	MS
FILE NAME: 20171407_F1.dwg	

SITE LOCATION MAP

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
1

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LAYOUT: Layout1
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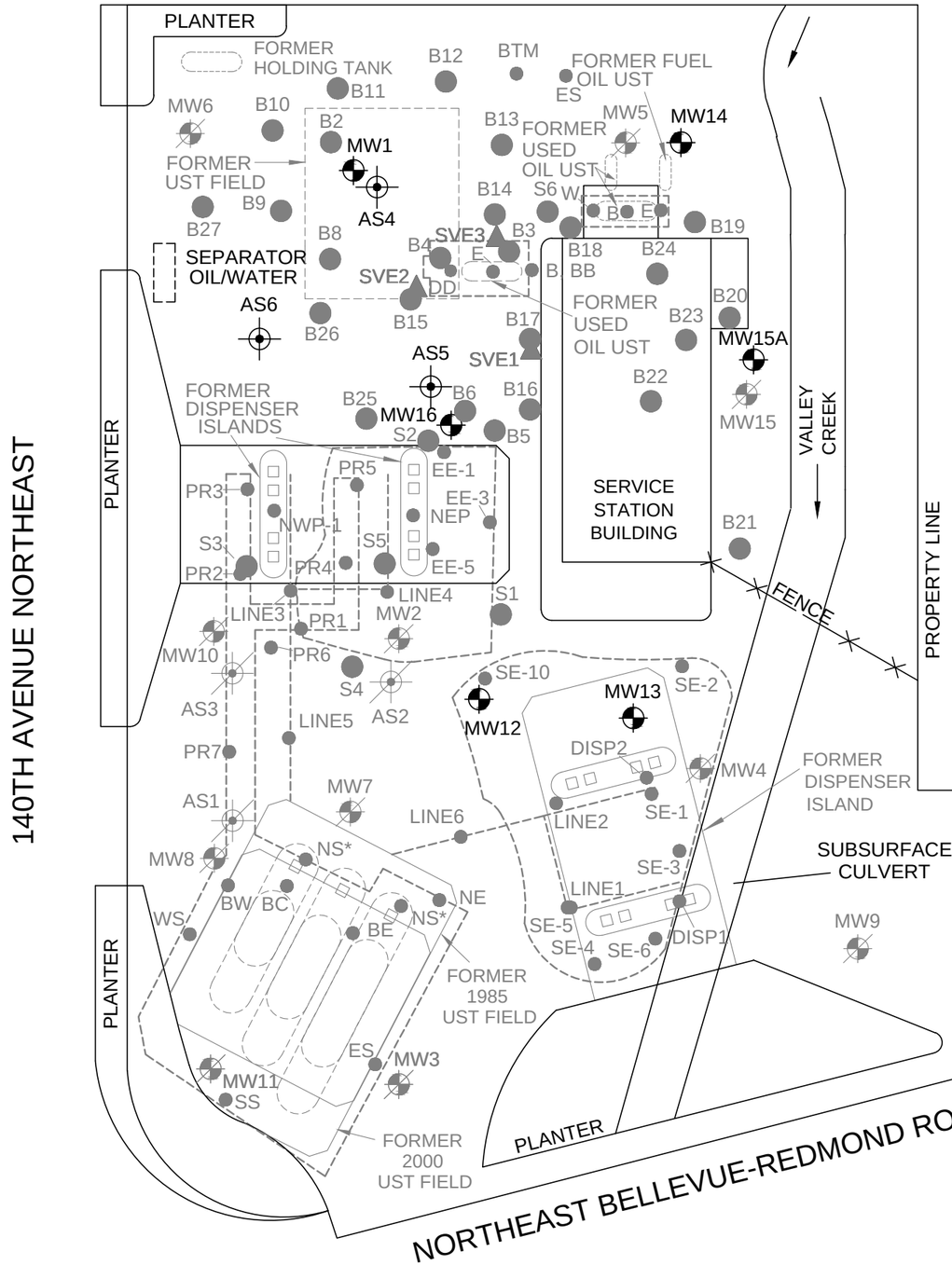
Images: WA_Kirkland_20140122_TM_geo.png Images: WA_Mercer_Island_20140122_TM_geo.png
ATTACHED IMAGES:
ATTACHED XREFS:
RIVERSIDE, CA



EXPLANATION

- MW16 — Groundwater Monitoring Well
- MW15 — Destroyed Groundwater Monitoring Well
- AS6 — Air Sparge Well
- AS3 — Destroyed Air Sparge Well
- SVE3 — Soil Vapor Extraction Well
- B31 — Historical Soil Boring Location
- PR7 — Historical Excavation Sample Location
- Historical Excavation Extent

N

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APPROXIMATE SCALE (feet)

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SOURCE: Modified from a map provided by ExxonMobil Oil Corporation

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PROJECT NO.	20171407
DRAWN:	06/2019
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HISTORICAL ASSESSMENT LOCATION PLAN

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE 2

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LAYOUT: Layout1
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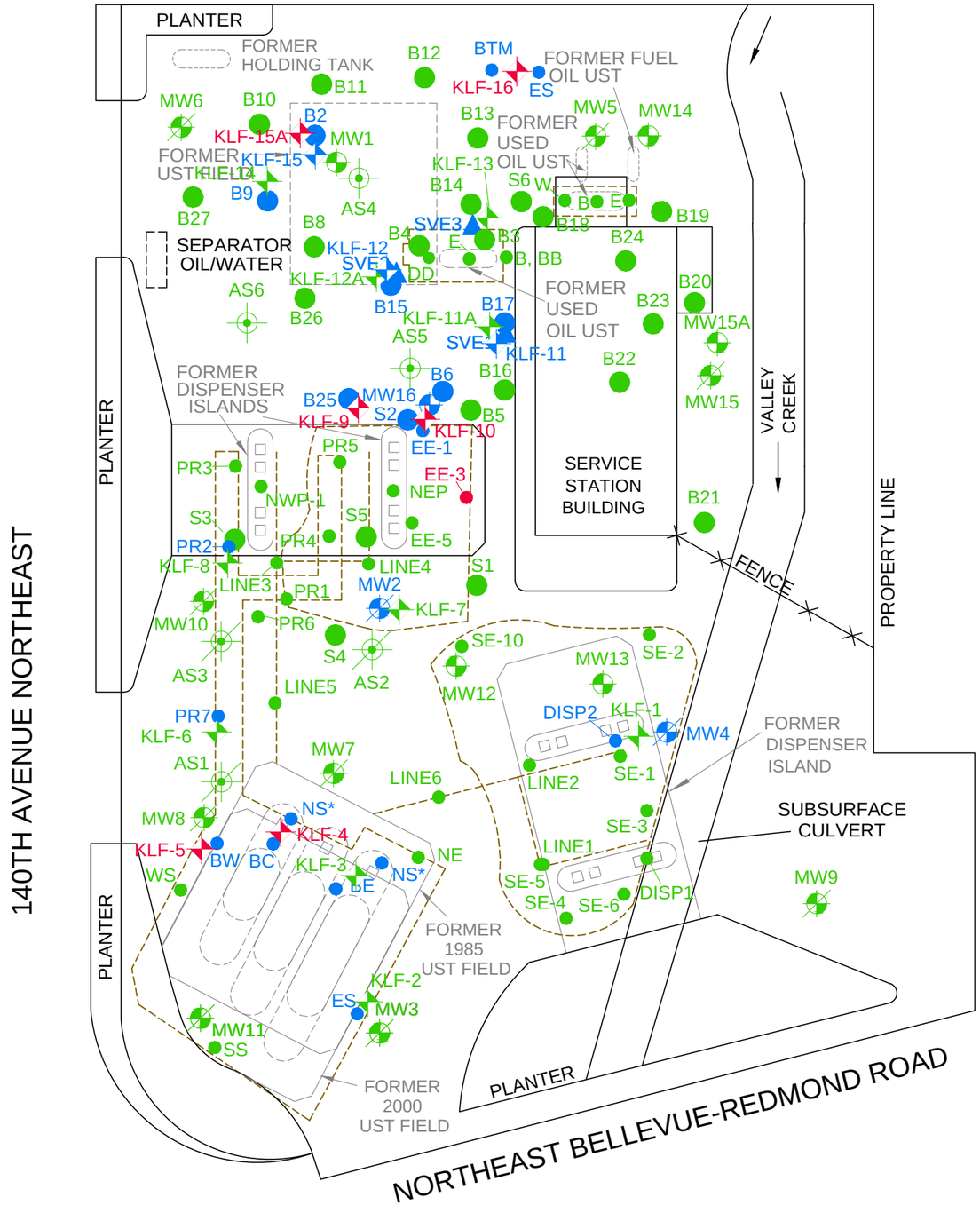
ATTACHED XREFS:
RIVERSIDE, CA



EXPLANATION

- MW16 — Groundwater Monitoring Well
- MW15 — Destroyed Groundwater Monitoring Well
- AS6 — Air Sparge Well
- AS3 — Destroyed Air Sparge Well
- SVE3 — Soil Vapor Extraction Well
- B31 — Historical Soil Boring Location
- PR7 — Historical Excavation Sample Location
- KLF-16 — Confirmation Boring Location (Kleinfelder, 2020)
- Historical Excavation Extent

- NUMBERS OR SYMBOLS IN RED INDICATE CONCENTRATIONS WHICH EXCEED THE MTCA METHOD A CLEANUP LEVELS
- NUMBERS OR SYMBOLS IN BLUE CONFIRMED BY CONFIRMATION SOIL SAMPLES COLLECTED AT A LATER DATE
- NUMBERS OR SYMBOLS IN GREEN INDICATE CONCENTRATIONS BELOW THE MTCA METHOD A CLEANUP LEVELS

N

20 10 0 20

APPROXIMATE SCALE (feet)

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FILE NAME:	0311030002_rev.dwg

MTCA METHOD A
SOIL EXCEEDANCES

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
3

PLOTTED: 21 Oct 2020, 3:51pm, DFahrney
LAYOUT: Layout1
CAD FILE: U:\Projects\CADD\CADD 2017\20171407\
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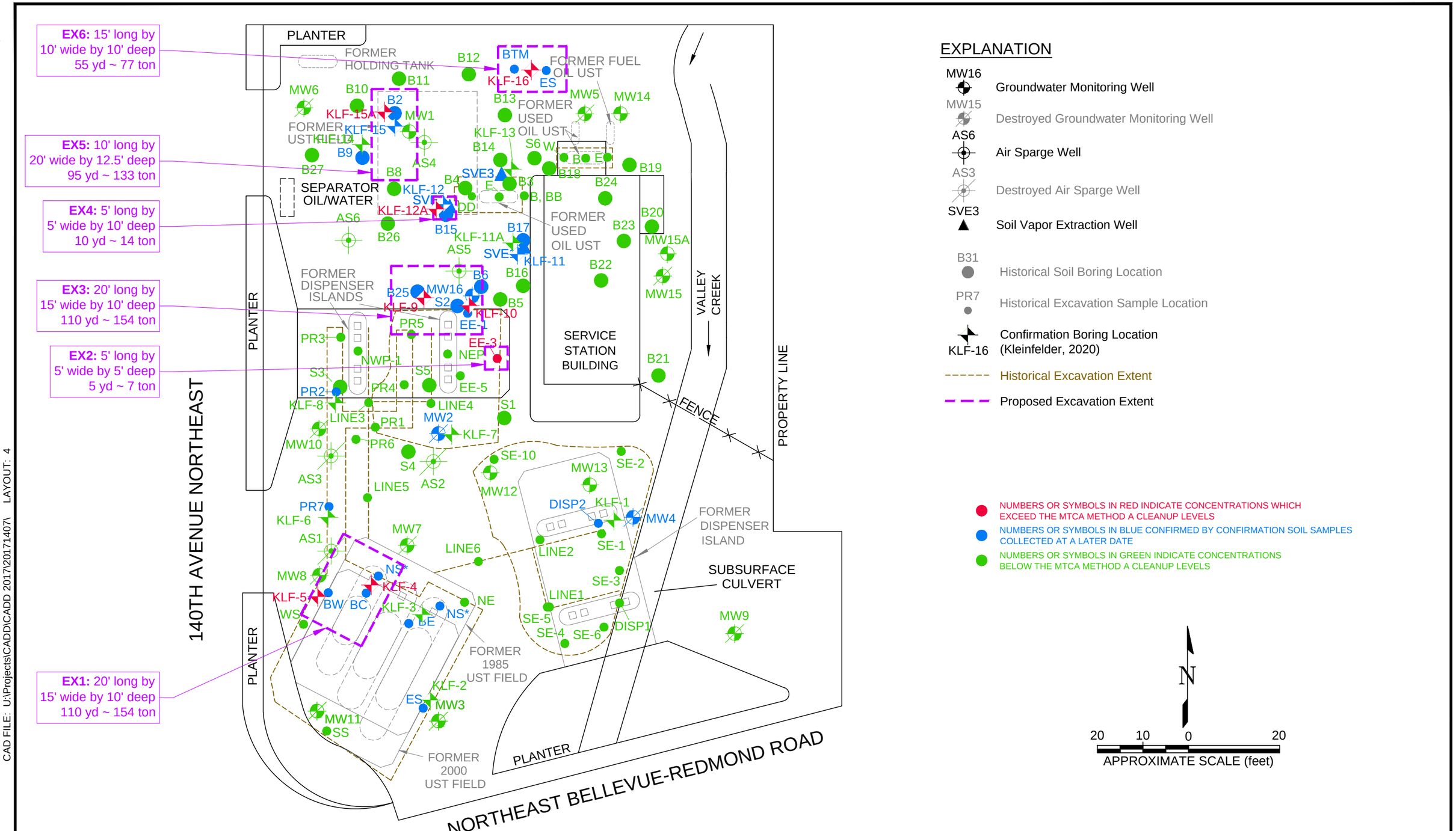

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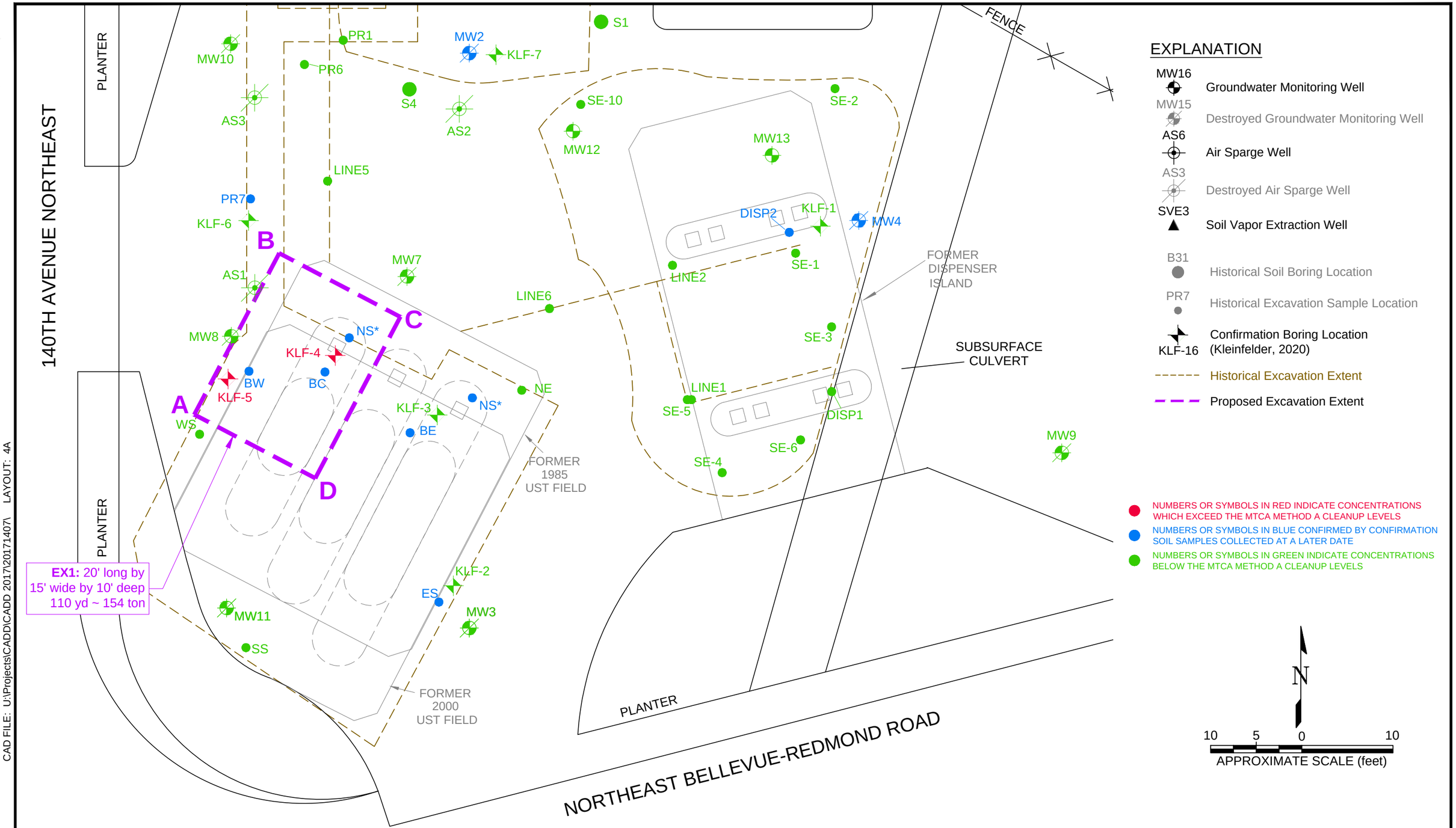
PROPOSED EXCAVATION LIMITS

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE 4



PLOTTED: 03 Nov 2020, 9:40am, DFahrney

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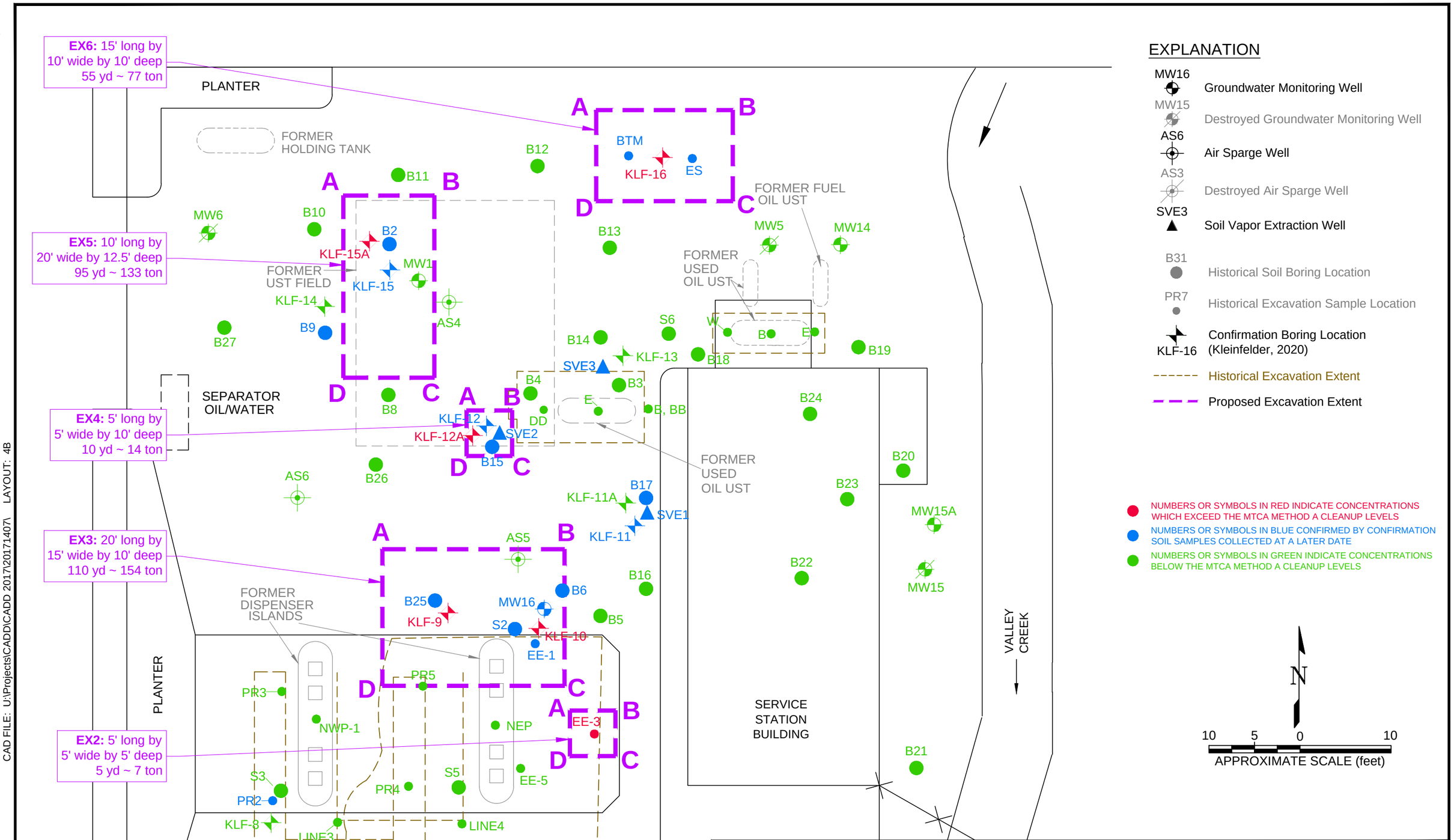
PROPOSED
EXCAVATION LIMITS
SOUTHERN SECTION SITE

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
4A



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CAD FILE: U:\Projects\CADD\CADD 2017\20171407\ LAYOUT: 4B

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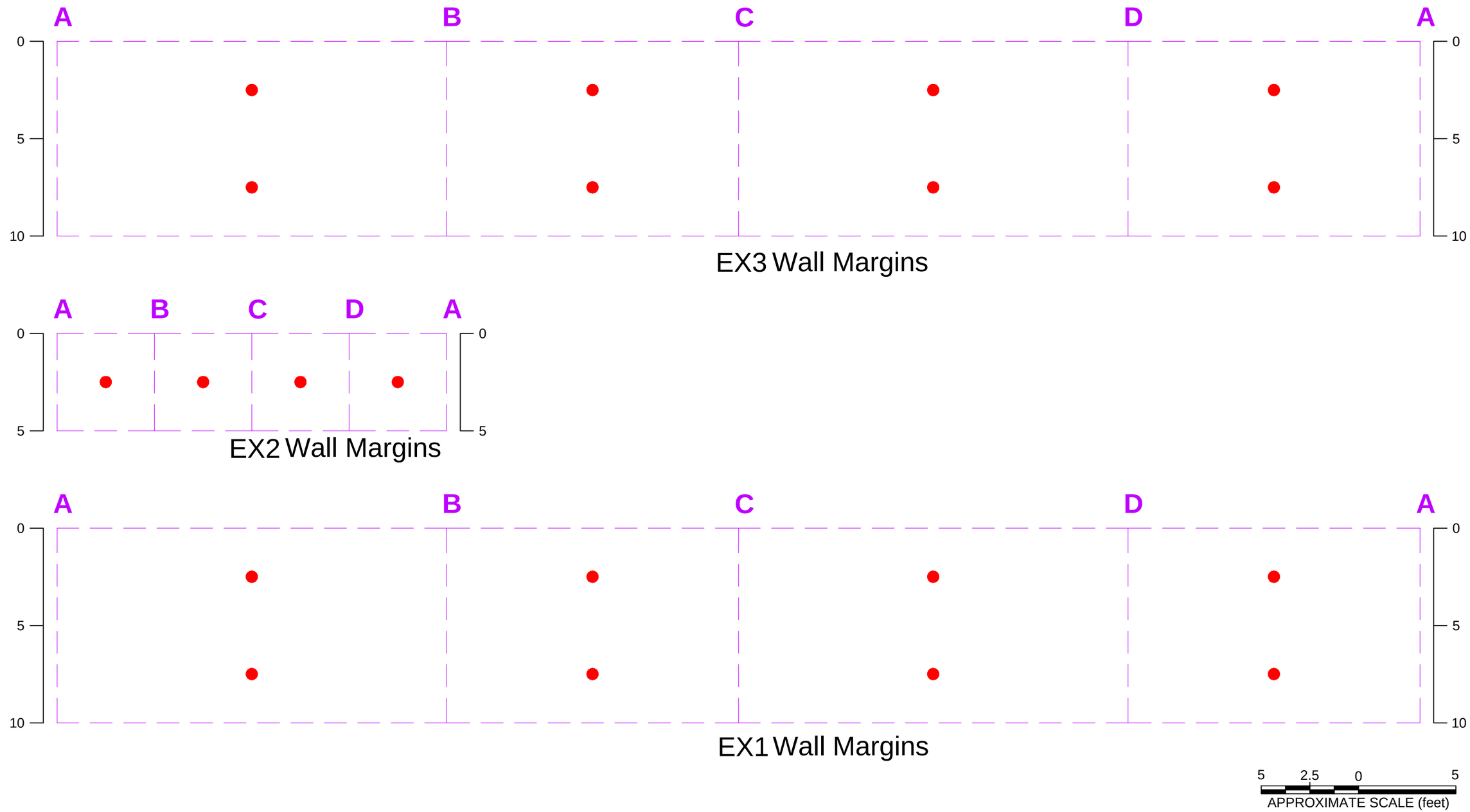
PROPOSED
EXCAVATION LIMITS
NORTHERN SECTION SITE

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
4B



EXPLANATION

● PROPOSED WALL MARGIN SCREENING LOCATIONS

ONE SAMPLE WILL BE COLLECTED FROM THE HIGHEST PID SCREENING RESULT FROM EACH WALL SEGMENT.

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PROPOSED EXCAVATION MARGIN SCREENING AND SAMPLING LOCATIONS

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
5A

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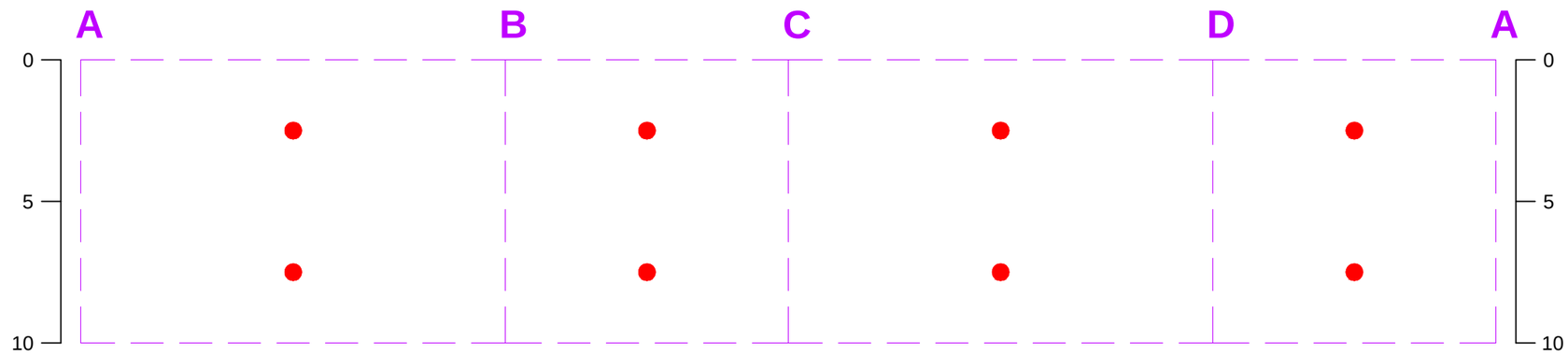
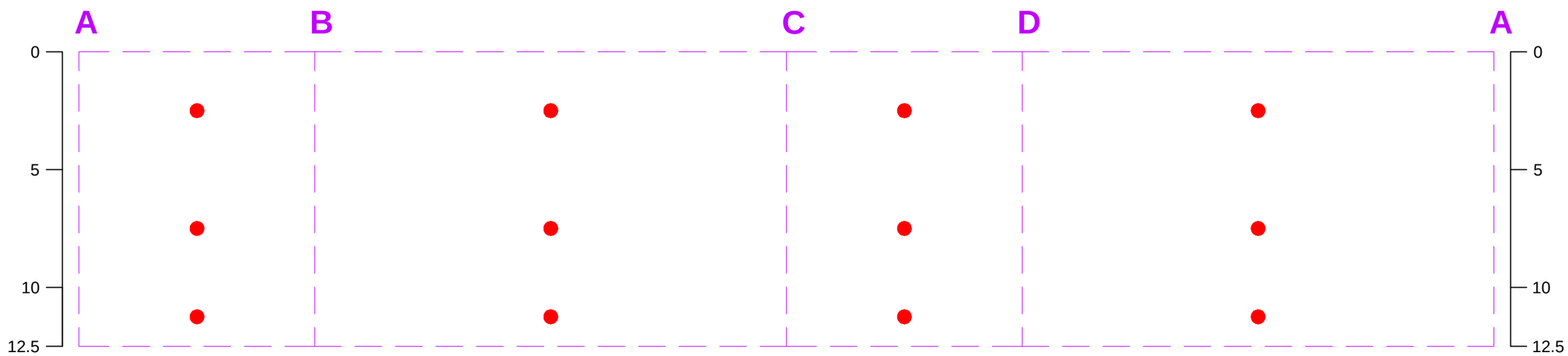
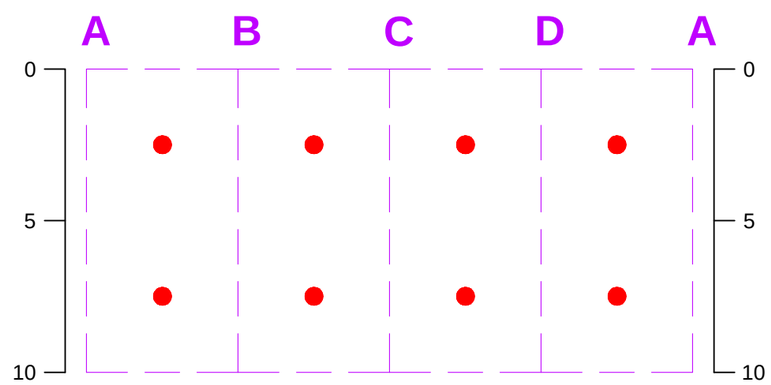


EX6 Wall Margins



EX5 Wall Margins



EX4 Wall Margins

5 2.5 0 5

APPROXIMATE SCALE (feet)

EXPLANATION

● PROPOSED WALL MARGIN SCREENING LOCATIONS

ONE SAMPLE WILL BE COLLECTED FROM THE HIGHEST PID SCREENING RESULT FROM EACH WALL SEGMENT.

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PROPOSED EXCAVATION MARGIN SCREENING AND SAMPLING LOCATIONS

FORMER EXXON SERVICE STATION 72864
14014 NORTHEAST BELLEVUE-REDMOND ROAD
BELLEVUE, WASHINGTON

FIGURE
5B

PLOTTED: 03 Nov 2020, 10:31am, DFahrney

CAD FILE: U:\Projects\CADD\CADD 2017\20171407\ LAYOUT: 6B

ATTACHED IMAGES:
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TABLES

Table 1
Well Construction Summary
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Well Status	Frequency of Gauging	Frequency of Sampling	Date of Installation	Casing/Borehole Diameter (inches)	Wellhead Elevation (feet)	Screened Interval (feet bgs)	Total Well Depth (Feet bgs)
MW1	LF	Periodically	Periodically	October 16, 1991	2/8	98.94	4-19	19
MW2	Destroyed	NM	NS	October 17, 1991	2/8	NE	4-19	19
MW3	Destroyed	NM	NS	October 17, 1991	2/8	NE	4-19	19
MW4	Destroyed	NM	NS	October 17, 1991	2/8	NE	4-19	19
MW5	Destroyed	NM	NS	October 18, 1991	2/8	NE	4.5-19.5	20
MW6	Destroyed	NM	NS	October 18, 1991	2/8	NE	4-19	19
MW7	Destroyed	NM	NS	January 17, 1992	2/8	NE	4-19	19
MW8	Destroyed	NM	NS	January 17, 1992	2/8	NE	4-19	19
MW9	Destroyed	NM	NS	January 17, 1992	2/8	NE	4-19	19
MW10	Destroyed	NM	NS	January 18, 1992	2/8	NE	4-19	19
MW11	Destroyed	NM	NS	--	--	--	4-19	19
MW12	LF	Periodically	Periodically	October 31, 2001	2/8	99.39	4-19	19
MW13	LF	Periodically	Periodically	October 31, 2001	2/8	100.05	4-19	19
MW14	LF	Periodically	Periodically	June 18, 2007	2/8	100.26	3-13	13
MW15	Destroyed	NM	NS	June 19, 2007	2/8	100.07	2-12	12
MW15A	LF	Periodically	Periodically	June 21, 2016	2/6	99.99	5-10	10
MW16	LF	Periodically	Periodically	May 29, 2008	2/6.25	99.68	5-15	15
SVE1	LF	Periodically	Periodically	May 18, 2009	2/6.25	100.16	3.5-13.5	13.5
SVE2	LF	Periodically	Periodically	May 18, 2009	2/6.25	99.33	3.5-13.5	13.5
SVE3	LF	Periodically	Periodically	May 18, 2009	2/6.25	99.67	3.5-13.5	13.5
AS1	Destroyed	NM	NS	October 3, 1995	2/4.25	NE	18-19.5	20
AS2	Destroyed	NM	NS	October 3, 1995	2/4.25	NE	18-19.5	20
AS3	Destroyed	NM	NS	October 3, 1995	2/4.25	NE	18-19.5	20
AS4	Destroyed	NM	NS	October 3, 1995	2/4.25	NE	18-19.5	20
AS5	Destroyed	NM	NS	March 13, 1996	2/8.5	NE	18-19.5	20
AS6	Destroyed	NM	NS	March 13, 1996	2/8.5	NE	18-19.5	20

Notes

bgs	Below ground surface
LF	Low flow
NM	Not measured
NS	Not sampled
NE	Not established
--	Information not available

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	**feet**	**feet bgs**	**feet bgs**	**feet**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
					MTCA Method A Cleanup Levels [a]	**800/1,000[a]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**--**	**15**
	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	11/14/1991	98.94	4.92	0.00	94.02	**5,500**	--	--	**99**	240	130	920	240	--
	2/3/1992	98.94	4.19	0.00	94.75	**3,100**	--	--	**160**	85	92	430	10	<3.0
	7/6/1992	98.94	5.95	0.00	92.99	**1,800**	--	--	**140**	25	51	160	--	<3.0
	11/23/1992	98.94	4.67	0.00	94.27	**1,400**	--	--	**60**	14	29	96	--	<3.0
	2/11/1993	98.94	4.88	0.00	94.06	**2,700**	--	--	**240**	30	80	210	--	<3.0
	5/26/1993	98.94	4.80	0.00	94.14	**2,000**	--	--	**300**	19	88	210	--	<3.0
	8/17/1993	98.94	4.98	0.00	93.96	**1,200**	--	--	**120**	12	43	88	--	3
	11/29/1993	98.94	4.87	0.00	94.07	**810**	--	--	**68**	6.3	28	68	--	<3.0
	2/28/1994	98.94	4.52	0.00	94.42	**1,200**	--	--	**97**	14	44	82	--	<3.0
	5/12/1994	98.94	4.92	0.00	94.02	**1,300**	--	--	**220**	9.2	69	130	<3.0	<3.0
	8/18/1994	98.94	5.14	0.00	93.80	**930**	--	--	**160**	8.8	67	120	<3.0	<3.0
	12/2/1994	98.94	4.43	0.00	94.51	560	--	--	**69**	6.2	37	62	--	--
	2/15/1995	98.94	4.59	0.00	94.35	**1,000**	--	--	**260**	6.1	67	67	--	--
	4/28/1995	98.94	4.63	0.00	94.31	**910**	--	--	**240**	4.6	66	56	--	--
	7/11/1995	98.94	4.87	0.00	94.07	300	--	--	**70**	7.1	20	38	--	--
	10/12/1995	98.94	4.96	0.00	93.98	**920**	--	--	**31**	290	16	33	390	--
	1/15/1996	98.94	1.97	0.00	96.97	310	--	--	**15**	14	11	41	37	--
	4/12/1996	98.94	4.62	0.00	94.32	590	--	--	**140**	19	48	56	6.4	--
	7/25/1996	98.94	5.18	0.00	93.76	796	--	--	**170**	6.92	66.6	73.0	6.18	--
	11/18/1996	98.94	4.62	0.00	94.32	496	--	--	**81.4**	13.2	20.2	28.2	31.1	--
	2/28/1997	98.94	4.43	0.00	94.51	**1,590**	--	--	**504**	33.5	115	117	20	--
	5/19/1997	98.94	4.55	0.00	94.39	**1,520**	--	--	**651**	21.1	137	119	7.78	--
	9/11/1997	98.94	4.92	0.00	94.02	**2,130**	--	--	**239**	60.9	58.4	331	--	--
	7/16/1998	98.94	5.05	0.00	93.89	284	--	--	3.88	1.37	1.68	29.2	--	--
	12/14/1998	98.94	4.12	0.00	94.82	78	--	--	0.698	<50.0	<50.0	2.5	--	--
	3/10/1999	98.94	5.63	0.00	93.31	<50.0	--	--	1.23	<50.0	<50.0	<1.0	--	--
	6/29/1999	98.94	4.67	0.00	94.27	276.0	--	--	**7.71**	0.78	9.87	7.6	--	--
	11/2/1999	98.94	4.91	0.00	94.03	210	--	--	**7**	<1.0	7.2	7.3	--	--
	11/30/2000	98.94	4.80	0.00	94.14	<250	<250	<750	**15**	16	1.3	9.6	--	--
	3/22/2001	98.94	4.51	0.00	94.43	362	--	--	**42.1**	<0.828	19.2	7.73	18.2	--
MW1	6/14/2001	98.94	4.51	0.00	94.43	209	--	--	**34.3**	0.841	8.44	6.51	16.6	--
	9/18/2001	98.94	5.04	0.00	93.90	319	--	--	**13.3**	0.614	5.47	3.79	9.19	--
	12/7/2001	98.94	4.30	0.00	94.64	207	700	640	**15.1**	3.00	3.64	4.82	--	--
	3/27/2002	98.94	4.40	0.00	94.54	474	<100	140	**43.5**	1.10	7.4	4.2	8.00	--
	6/7/2002	98.94	4.75	0.00	94.19	365	8,710	<1,000	**38.2**	1.3	3.6	4.7	112	<3.0
	9/4/2002	98.94	5.55	0.00	93.39	670	184	469	**18.2**	1.1	2.3	4.0	--	--
	12/20/2002	98.94	4.22	0.00	94.72	460	<100	220	**14.6**	<1.0	1.3	2.6	--	--
	3/6/2003	98.94	4.58	0.00	94.36	**834**	138	311	**54.3**	1.1	2.1	2.2	--	--
	6/19/2003	98.94	4.95	0.00	93.99	**1,090**	109	<100	**56.6**	2.4	2.3	5.7	--	--
	9/18/2003	98.94	4.85	0.00	94.09	**982**	<100	<100	**27.5**	2.3	2.8	5.6	--	--
	12/12/2003	98.94	4.37	0.00	94.57	**849**	<100	<100	**40.3**	1.6	1.9	3.5	--	--
	12/20/2004	98.94	4.42	0.00	94.52	**1,130**	238	<125	**113**	2.1	1.6	4.2	--	--
	12/21/2005	98.94	Obstructed											
	12/6/2006	98.94	4.40	0.00	94.54	**1,090**	363	235	**187**	2.55	2.39	4.51	--	<5.00
	7/30/2007	98.94	5.46	0.00	93.48	477	152	<95.2	**29.1**	1.50	1.22	<3.00	<5.00	<5.00
	1/22/2008	98.94	4.37	0.00	94.57	725	444	384	**121**	1.91	3.15	5.92	<5.00	<5.00
	8/28/2008	98.94	4.63	0.00	94.31	**1,320**	226	140	**11.9**	1.78	1.57	4.55	<5.00	<5.00
	3/26/2009	98.94	4.83	0.00	94.11	481	1,590	3,050	**38.4**	<1.00	<1.00	<3.00	64.5	53.0
	8/7/2009	98.94	5.01	0.00	93.93	<100	<100	<100	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	98.94	4.88	0.00	94.06	171	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	98.94	3.77	0.00	95.17	618	407	255	**40.1**	<1.00	<1.00	<3.00	<5.00	<5.00
	6/29/2016	98.94	4.67	0.00	94.27	**1,020**	204	<93.5	**14.1**	1.49	<1.00	<3.00	6.30	<5.00
	10/6/2016	98.94	4.90	0.00	94.04	700 HD	130 HD	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	98.94	4.21	0.00	94.73	680 HD	120 HD	27 J, HD	**23**	0.6 J	<0.5	1 J	<6.2	<6.2
	10/19/2017	98.94	5.35	0.00	93.59	590 HD	170 HD	29 J,HD	0.7 J	<0.5	<0.5	<0.5	24.7	<6.0
	6/14/2018	98.94	4.62	0.00	94.32	430	330 HD	280 HD	4	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	98.94	4.53	0.00	94.41	**1,800 HD**	240 HD	71 HD, J	**22**	4	0.5 J	2 J	<7.1	<7.1
	5/28/2019	98.94	4.26	0.00	94.68	420 HD	110 HD	27 J,HD	3	0.3 J	<0.4	<1	32.7	<7.1
	11/14/2019	98.94	4.13	0.00	94.81	**840**	120 Z J,Z	14 J,Z	**7**	0.7 J	<0.4	<1	42.8	<7.1
	3/5/2020	98.94	4.26	0.00	94.68	**1,100***	280 Z	<91	**47**	1	0.7 J	3 J	<7.1	<7.3
	6/25/2020	98.94	4.42	0.00	94.52	**1,100**	170 Z	<93	**18**	1.3 J	<3.0	2.0 J	<15	<15.5
	9/24/2020	98.94	4.39	0.00	94.55	650 Z	190 Z	<98	<3.0	0.44 J	<3.0	0.92 J	<15	<15.5

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	feet	feet bgs	feet bgs	feet	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
	MTCA Method A Cleanup Levels [a]					800/1,000[a]	500	500	5	1,000	700	1,000	--	15
MW2	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	11/14/1991	99.39	5.75	0.00	93.64	**1,500**	--	--	**520**	10	73	110	220	--
	2/3/1992	99.39	4.98	0.00	94.41	**34,000**	--	--	**7,000**	370	**1,100**	**3,800**	30	**16**
	7/6/1992	99.39	5.78	0.00	93.61	**9,300**	--	--	**2,500**	120	560	**1,400**	--	<3
	11/23/1992	99.39	5.45	0.00	93.94	**35,000**	--	--	**7,400**	470	**1,600**	**4,400**	--	14
	2/11/1993	99.39	5.71	0.00	93.68	**19,000**	--	--	**3,800**	400	**830**	**2,900**	--	9
	5/26/1993	99.39	5.60	0.00	93.79	**31,000**	--	--	**7,100**	650	**1,600**	**5,700**	--	11
	8/17/1993	99.39	5.91	0.00	93.48	**5,200**	--	--	**1,000**	25	240	600	--	4
	11/29/1993	99.39	5.76	0.00	93.63	**7,400**	--	--	**1,700**	65	420	**1,200**	--	5
	2/28/1994	99.39	5.29	0.00	94.10	**26,000**	--	--	**4,500**	420	**1,100**	**3,200**	--	13
	5/12/1994	99.39	5.78	0.00	93.61	**11,000**	--	--	**2,600**	260	600	**2,500**	5	6
	8/18/1994	99.39	6.14	0.00	93.25	**5,400**	--	--	**1,600**	19	400	680	4.2	<3.0
	12/2/1994	99.39	5.31	0.00	94.08	**22,000**	--	--	**3,400**	250	**1,000**	**3,400**	16	--
	2/15/1995	99.39	5.43	0.00	93.96	**19,000**	--	--	**2,900**	400	**830**	**2,900**	6.4	--
	4/28/1995	99.39	5.58	0.00	93.81	**18,000**	--	--	**3,100**	280	**850**	**3,400**	6.8	--
	7/11/1995	99.39	5.84	0.00	93.55	**3,500**	--	--	**860**	22	220	640	5.2	--
	10/12/1995	99.39	5.96	0.00	93.43	**5,400**	--	--	**1,500**	16	340	510	3.0	--
	1/15/1996	99.39	5.15	0.00	94.24	**25,000**	--	--	**2,600**	120	**1,200**	**4,000**	16	--
	4/12/1996	99.39	5.30	0.00	94.09	**29,000**	--	--	**3,100**	140	**1,400**	**5,400**	11	--
	7/25/1996	99.39	5.98	0.00	93.41	**15,700**	--	--	**1,760**	34.8	**821**	**2,290**	9.16	--
	11/18/1996	99.39	4.51	0.00	94.88	**20,000**	--	--	**1,840**	49.1	**900**	**1,710**	29.60	--
	2/28/1997	99.39	5.23	0.00	94.16	559	--	--	**122**	<0.5	27.8	11.1	5.3	--
	5/19/1997	99.39	5.20	0.00	94.19	**24,600**	--	--	**2,610**	62.8	**1,380**	**3,390**	16.8	--
	9/11/1997	99.39	5.87	0.00	93.52	**6,110**	--	--	**918**	6.7	370	426	--	--
	7/16/1998	99.39	7.11	0.00	92.28	219	--	--	**6.82**	<50.0	1.24	4.9	--	--
	12/14/1998	99.39	4.54	0.00	94.85	<50.0	--	--	<50.0	<50.0	<50.0	<1.0	--	--
	3/10/1999	99.39	5.06	0.00	94.33	**1,360**	--	--	**355**	14.0	22.4	80.5	--	--
	6/29/1999	99.39	5.40	0.00	93.99	**1,320**	--	--	**92.7**	2.3	75	75.9	--	--
	11/2/1999	99.39	5.67	0.00	93.72	**1,200**	--	--	**77**	2.8	81	47.1	--	--
MW3	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	11/14/1991	98.91	5.73	0.00	93.18	<50	--	--	<0.5	<0.5	<0.5	<0.5	46	--
	2/3/1992	98.91	5.41	0.00	93.50	<50	--	--	2.3	<0.5	<0.5	<0.5	19	<3.0
	7/6/1992	98.91	5.63	0.00	93.28	130	--	--	**16**	<0.5	<0.5	0.6	--	<3.0
	11/23/1992	98.91	5.28	0.00	93.63	110	--	--	**9**	0.5	0.7	0.6	--	<3.0
	2/11/1993	98.91	5.33	0.00	93.58	98	--	--	**5.7**	0.9	1	0.5	--	<3.0
	5/26/1993	98.91	5.23	0.00	93.68	77	--	--	3.7	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	98.91	5.55	0.00	93.36	96	--	--	3	1.9	<0.5	0.8	--	5
	11/29/1993	98.91	5.53	0.00	93.38	<50	--	--	0.9	<0.5	<0.5	<0.5	--	<3.0
	2/28/1994	98.91	5.06	0.00	93.85	51	--	--	**40**	<0.5	<0.5	<0.5	--	<3.0
	5/12/1994	98.91	5.42	0.00	93.49	<50	--	--	**91**	1.9	0.7	2.2	<3.0	<3.0
	8/18/1994	98.91	5.93	0.00	92.98	<50	--	--	**58**	1	<0.5	1.3	<3.0	<3.0
	12/2/1994	98.91	5.18	0.00	93.73	<50	--	--	**11**	<0.5	<0.5	<0.5	--	--
	2/15/1995	98.91	5.00	0.00	93.91	<50	--	--	4.8	<0.5	<0.5	<1.0	--	--
	4/28/1995	98.91	5.21	0.00	93.70	66	--	--	**24**	<0.5	<0.5	<1.0	--	--
	7/11/1995	98.91	5.59	0.00	93.32	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	10/12/1995	98.91	5.73	0.00	93.18	<50	--	--	0.52	<0.5	<0.5	<1.0	2.2	--
	1/15/1996	98.91	4.99	0.00	93.92	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	7/25/1996	98.91	5.79	0.00	93.12	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	5/19/1997	98.91	5.11	0.00	93.80	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	9/11/1997	98.91	5.75	0.00	93.16	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	3/10/1999	98.91	4.84	0.00	94.07	--	--	--	--	--	--	--	--	--
	6/29/1999	98.91	NM	--	--	--	--	--	--	--	--	--	--	--
	11/2/1999	98.91	NM	--	--	--	--	--	--	--	--	--	--	--
MW4	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	11/14/1991	100.20	6.50	0.00	93.70	170	--	--	21	13	5.9	26	330	--
	2/3/1992	100.20	6.33	0.00	93.87	110	--	--	4.8	3.8	3.7	15	31	<3.0
	7/6/1992	100.20	6.68	0.00	93.52	600	--	--	**6.3**	1.6	4.8	12	--	9
	11/23/1992	100.20	6.49	0.00	93.71	100	--	--	0.9	<0.5	0.8	2	--	<3.0
	2/11/1993	100.20	6.69	0.00	93.51	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	5/26/1993	100.20	6.72	0.00	93.48	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	100.20	6.84	0.00	93.36	<50	--	--	0.9	1	<0.5	1.1	--	4
	11/29/1993	100.20	6.61	0.00	93.59	94	--	--	3	1.6	1.7	5.4	--	<3.0
	2/28/1994	100.20	6.52	0.00	93.68	140	--	--	1.6	3.3	1.2	6	--	<3.0
	5/12/1994	100.20	6.80	0.00	93.40	110	--	--	2.3	0.8	1.1	4.4	3	<3.0
	8/18/1994	100.20	6.93	0.00	93.27	260	--	--	**5.1**	3.8	5.6	25	3.9	<3.0
	12/2/1994	100.20	6.51	0.00	93.69	**810**	--	--	4.5	6.5	0.8	4.8	<3.0	--
	2/15/1995	100.20	6.53	0.00	93.67	170	--	--	1.4	0.79	2.7	12	<2.0	--
	4/28/1995	100.20	6.81	0.00	93.39	180	--	--	2.3	0.56	3	9.1	--	--
	7/11/1995	100.20	6.82	0.00	93.38	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	10/12/1995	100.20	6.82	0.00	93.38	<50	--	--	0.65	<0.5	<0.5	<1.0	2.5	--
	1/15/1996	100.20	6.29	0.00	93.91	<50	--	--	0.67	<0.5	<0.5	<1.0	<2.0	--
	7/25/1996	100.20	7.14	0.00	93.06	<50	--	--	0.645	<0.5	<0.5	<1.0	--	--
	11/18/1996	100.20	6.58	0.00	93.62	--	--	--	--	--	--	--	--	--
	2/28/1997	100.20	6.74	0.00	93.46	--	--	--	--	--	--	--	--	--
	5/19/1997	100.20	6.78	0.00	93.42	116	--	--	**39.3**	22.7	2.71	10.8	--	--
	3/10/1999	100.20	6.67	0.00	93.53	--	--	--	--	--	--	--	--	--
	6/29/1999	100.20	3.83	0.00	96.37	--	--	--	--	--	--	--	--	--
	11/2/1999	100.20	NM	--	--	--	--	--	--	--	--	--	--	--

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	feet	feet bgs	feet bgs	feet	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
					MTCA Method A Cleanup Levels [a]	800/1,000[a]	500	500	5	1,000	700	1,000	--	15
MW5	Screened Interval 4-20 ft bgs \ Total Well Depth 20 ft bgs													
	2/3/1992	100.09	5.29	0.00	94.80	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	24	<3.0
	7/6/1992	100.09	5.91	0.00	94.18	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	6
	11/23/1992	100.09	5.69	0.00	94.40	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/11/1993	100.09	5.93	0.00	94.16	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	5/26/1993	100.09	5.93	0.00	94.16	<50	80	<500	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	100.09	6.02	0.00	94.07	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/28/1994	100.09	5.56	0.00	94.53	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	8/18/1994	100.09	6.13	0.00	93.96	<50	<50	<1,000	<0.5	<0.5	<0.5	<0.5	<3.0	<3.0
	12/2/1994	100.09	5.47	0.00	94.62	--	--	--	--	--	--	--	--	--
	2/15/1995	100.09	5.62	0.00	94.47	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	4/28/1995	100.09	5.87	0.00	94.22	--	--	--	--	--	--	--	--	--
	7/11/1995	100.09	5.95	0.00	94.14	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	10/12/1995	100.09	5.92	0.00	94.17	--	--	--	--	--	--	--	--	--
	1/15/1996	100.09	8.24	0.00	91.85	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	4/12/1996	100.09	5.71	0.00	94.38	--	--	--	--	--	--	--	--	--
	7/25/1996	100.09	6.18	0.00	93.91	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	11/18/1996	100.09	5.41	0.00	94.68	--	--	--	--	--	--	--	--	--
	2/28/1997	100.09	5.51	0.00	94.58	--	--	--	--	--	--	--	--	--
	5/19/1997	100.09	5.61	0.00	94.48	<50	--	--	<0.50	<0.50	<0.50	<1.0	<2.0	--
	3/10/1999	100.09	5.52	0.00	94.57	--	--	--	--	--	--	--	--	--
	6/29/1999	100.09	NM	--	--	--	--	--	--	--	--	--	--	--
	11/2/1999	100.09	NM	--	--	--	--	--	--	--	--	--	--	--
MW6	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	11/14/1991	98.96	4.53	0.00	94.43	<50	73	<1,000	<0.5	<0.5	<0.5	<0.5	160	--
	2/3/1992	98.96	3.60	0.00	95.36	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	14	<3.0
	7/6/1992	98.96	4.68	0.00	94.28	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	11/23/1992	98.96	4.23	0.00	94.73	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/11/1993	98.96	4.49	0.00	94.47	<50	<50	<500	<0.5	0.6	<0.5	0.6	--	<3.0
	5/26/1993	98.96	4.44	0.00	94.52	<50	<50	<500	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	98.96	4.69	0.00	94.27	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	11/29/1993	98.96	4.61	0.00	94.35	--	--	--	--	--	--	--	--	--
	2/28/1994	98.96	4.12	0.00	94.84	<50	<50	<500	<0.5	<0.5	<0.5	<0.5	--	<3.0
	5/12/1994	98.96	4.61	0.00	94.35	--	--	--	--	--	--	--	--	--
	8/18/1994	98.96	4.92	0.00	94.04	<50	<50	<1,000	<0.5	<0.5	<0.5	<0.5	3.6	<3.0
	12/2/1994	98.96	4.08	0.00	94.88	--	--	--	--	--	--	--	--	--
	2/15/1995	98.96	4.22	0.00	94.74	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	4/28/1995	98.96	4.38	0.00	94.58	--	--	--	--	--	--	--	--	--
	7/11/1995	98.96	4.63	0.00	94.33	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	10/12/1995	98.96	4.67	0.00	94.29	--	--	--	--	--	--	--	--	--
	1/15/1996	98.96	4.03	0.00	94.93	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	4/12/1996	98.96	4.28	0.00	94.68	--	--	--	--	--	--	--	--	--
	7/25/1996	98.96	4.95	0.00	94.01	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	11/18/1996	98.96	4.11	0.00	94.85	--	--	--	--	--	--	--	--	--
	2/28/1997	98.96	4.11	0.00	94.85	--	--	--	--	--	--	--	--	--
	5/19/1997	98.96	4.11	0.00	94.85	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	3/10/1999	98.96	NM	--	--	--	--	--	--	--	--	--	--	--
	6/29/1999	98.96	4.68	0.00	94.28	--	--	--	--	--	--	--	--	--
	11/2/1999	98.96	4.65	0.00	94.31	--	--	--	--	--	--	--	--	--
MW7	2/3/1992	98.52	4.50	0.00	94.02	410	--	--	**8.6**	<0.5	<0.5	<0.5	29	<3.0
	7/6/1992	98.52	4.08	0.00	94.44	<50	--	--	2	<0.5	<0.5	<0.5	--	<3.0
	11/23/1992	98.52	4.70	0.00	93.82	73	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/11/1993	98.52	4.81	0.00	93.71	<50	--	--	<0.5	1.3	<0.5	<0.5	--	6
	5/26/1993	98.52	4.66	0.00	93.86	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	98.52	5.00	0.00	93.52	<50	--	--	1	0.8	<0.5	0.9	--	<3.0
	11/29/1993	98.52	5.18	0.00	93.34	<250	--	--	**230**	58	0.7	7.6	--	<3.0
	2/28/1994	98.52	4.71	0.00	93.81	120	--	--	**120**	18	1.7	7.2	--	<3.0
	5/12/1994	98.52	5.07	0.00	93.45	<50	--	--	**8.5**	1.2	0.6	2.4	<3.0	<3.0
	8/18/1994	98.52	5.61	0.00	92.91	<50	--	--	**6.7**	<0.5	<0.5	1.6	<3.0	<3.0
	12/2/1994	98.52	4.91	0.00	93.61	<50	--	--	**97**	6.5	0.8	4.8	--	--
	2/15/1995	98.52	4.61	0.00	93.91	84	--	--	**97**	9.5	<0.5	5.7	--	--
	4/28/1995	98.52	4.84	0.00	93.68	<50	--	--	**27**	0.91	<0.5	1.7	--	--
	7/11/1995	98.52	5.27	0.00	93.25	<50	--	--	1.6	<0.5	<0.5	<1.0	--	--
	10/12/1995	98.52	5.41	0.00	93.11	<50	--	--	<0.5	<0.5	<0.5	<1.0	2.4	--
	1/15/1996	98.52	4.65	0.00	93.87	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	4/12/1996	98.52	4.78	0.00	93.74	--	--	--	--	--	--	--	--	--
	7/25/1996	98.52	5.41	0.00	93.11	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	**feet**	**feet bgs**	**feet bgs**	**feet**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
					MTCA Method A Cleanup Levels [a]	**800/1,000[a]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**--**	**15**
MW8	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	2/3/1992	97.96	3.96	0.00	94.00	77	--	--	0.7	1.8	<0.5	<0.5	9	<3.0
	7/6/1992	97.96	4.53	0.00	93.43	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	10
	11/23/1992	97.96	4.15	0.00	93.81	100	--	--	2.5	<0.5	0.7	0.6	--	<3.0
	2/11/1993	97.96	4.25	0.00	93.71	170	--	--	**19**	1.5	0.8	0.8	--	<3.0
	5/26/1993	97.96	4.11	0.00	93.85	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	97.96	4.45	0.00	93.51	<50	--	--	<0.5	1.1	<0.5	2.3	--	7
	11/29/1993	97.96	4.46	0.00	93.50	72	--	--	**30**	3.3	1.4	5.9	--	<3.0
	2/28/1994	97.96	3.98	0.00	93.98	130	--	--	**31**	6.3	<0.5	1.9	--	<3.0
	5/12/1994	97.96	4.34	0.00	93.62	<50	--	--	**11**	<0.5	<0.5	0.7	<3.0	<3.0
	8/18/1994	97.96	4.88	0.00	93.08	<50	--	--	<0.5	<0.5	<0.5	<0.5	7.5	<3.0
	12/2/1994	97.96	4.18	0.00	93.78	<50	--	--	<0.5	<0.5	<0.5	<0.5	3	--
	2/15/1995	97.96	3.87	0.00	94.09	70	--	--	**49**	4.5	<0.5	2.5	<2.0	--
	4/28/1995	97.96	4.10	0.00	93.86	50	--	--	**12**	0.56	<0.5	<1.0	--	--
	7/11/1995	97.96	4.53	0.00	93.43	<50	--	--	<0.5	<0.5	<0.5	<1.0	10	--
	10/12/1995	97.96	4.68	0.00	93.28	<50	--	--	<0.5	<0.5	<0.5	<1.0	2.5	--
	1/15/1996	97.96	3.93	0.00	94.03	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	4/12/1996	97.96	4.05	0.00	93.91	--	--	--	--	--	--	--	--	--
	7/25/1996	97.96	4.66	0.00	93.30	<50	--	--	<0.5	1.21	<0.5	2.32	--	--
	11/18/1996	97.96	3.73	0.00	94.23	--	--	--	--	--	--	--	--	--
	2/28/1997	97.96	3.91	0.00	94.05	--	--	--	--	--	--	--	--	--
	5/19/1997	97.96	3.27	0.00	94.69	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	3/10/1999	97.96	NM	--	--	--	--	--	--	--	--	--	--	--
	6/29/1999	97.96	NM	--	--	--	--	--	--	--	--	--	--	--
	11/2/1999	97.96	4.36	0.00	93.60	--	--	--	--	--	--	--	--	--
MW9	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	2/3/1992	100.33	6.57	0.00	93.76	<50	--	--	<0.5	<0.5	<0.5	<0.5	43	<3.0
	7/6/1992	100.33	6.95	0.00	93.38	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	6
	11/23/1992	100.33	6.77	0.00	93.56	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/11/1993	100.33	6.90	0.00	93.43	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	5/26/1993	100.33	6.91	0.00	93.42	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	100.33	6.99	0.00	93.34	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/28/1994	100.33	6.59	0.00	93.74	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	8/18/1994	100.33	7.07	0.00	93.26	<50	--	--	<0.5	<0.5	<0.5	<0.5	<3.0	<3.0
	2/15/1995	100.33	6.56	0.00	93.77	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	7/11/1995	100.33	6.97	0.00	93.36	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	1/15/1996	100.33	6.37	0.00	93.96	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	7/25/1996	100.33	7.30	0.00	93.03	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	11/18/1996	100.33	6.57	0.00	93.76	--	--	--	--	--	--	--	--	--
MW10	2/3/1992	98.66	4.70	0.00	93.96	**970**	--	--	**140**	0.5	11	39	8	<3.0
	7/6/1992	98.66	5.35	0.00	93.31	**950**	--	--	**53**	2	27	85	--	<3.0
	11/23/1992	98.66	5.08	0.00	93.58	**1,700**	--	--	**210**	2.4	72	200	--	<3.0
	2/11/1993	98.66	5.26	0.00	93.40	**1,400**	--	--	**160**	1.9	51	150	--	<3.0
	5/26/1993	98.66	5.13	0.00	93.53	**1,000**	--	--	**80**	2.6	39	140	--	<3.0
	8/17/1993	98.66	5.41	0.00	93.25	380	--	--	**20**	1.4	12	44	--	<3.0
	11/29/1993	98.66	5.30	0.00	93.36	**1,000**	--	--	**72**	0.7	33	110	--	<3.0
	2/28/1994	98.66	4.93	0.00	93.73	**1,300**	--	--	**180**	0.7	41	140	--	<3.0
	5/12/1994	98.66	5.28	0.00	93.38	700	--	--	**62**	1.3	21	92	<3.0	<3.0
	12/2/1994	98.66	4.89	0.00	93.77	**1,200**	--	--	**360**	2.6	55	150	4.1	--
	2/15/1995	98.66	4.95	0.00	93.71	**1,200**	--	--	**340**	1.3	44	140	4.3	--
	4/28/1995	98.66	5.11	0.00	93.55	**1,300**	--	--	**650**	<4.0	49	140	3	--
	7/11/1995	98.66	5.35	0.00	93.31	**1,200**	--	--	**470**	3.0	41	<1.0	2.8	--
	10/12/1995	98.66	5.45	0.00	93.21	**1,100**	--	--	**340**	2.2	54	92	2.5	--
	1/15/1996	98.66	4.76	0.00	93.90	**1,300**	--	--	**180**	1.2	44	96	5.4	--
	4/12/1996	98.66	4.96	0.00	93.70	**1,200**	--	--	**250**	2.5	36	66	3.0	--
	7/25/1996	98.66	5.49	0.00	93.17	**1,270**	--	--	**250**	3.32	36.4	55.9	2.64	--
	11/18/1996	98.66	4.62	0.00	94.04	**1,040**	--	--	**69.4**	1.03	30	29.5	<2.0	--
	2/28/1997	98.66	4.73	0.00	93.93	**32,500**	--	--	**2,670**	119	**1,340**	**3,840**	17.1	--
	5/19/1997	98.66	5.03	0.00	93.63	269	--	--	**34**	<0.5	3.96	1.11	5.15	--
	7/16/1998	98.66	7.87	0.00	90.79	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	12/14/1998	98.66	7.89	0.00	90.77	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	3/10/1999	98.66	4.64	0.00	94.02	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	6/29/1999	98.66	5.00	0.00	93.66	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	11/2/1999	98.66	5.20	0.00	93.46	<100	--	--	<1	<1	<1	<1	--	--

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	feet	feet bgs	feet bgs	feet	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
					MTCA Method A Cleanup Levels [a]	800/1,000[a]	500	500	5	1,000	700	1,000	--	15
MW11	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	2/3/1992	98.14	4.14	0.00	94.00	<50	--	--	<0.5	<0.5	<0.5	<0.5	24	<3.0
	7/6/1992	98.14	3.75	0.00	94.39	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	11/23/1992	98.14	4.35	0.00	93.79	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/11/1993	98.14	4.46	0.00	93.68	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	5/26/1993	98.14	4.32	0.00	93.82	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	<3.0
	8/17/1993	98.14	4.67	0.00	93.47	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	2/28/1994	98.14	4.18	0.00	93.96	<50	--	--	<0.5	<0.5	<0.5	<0.5	--	<3.0
	8/18/1994	98.14	5.09	0.00	93.05	<50	--	--	<0.5	<0.5	<0.5	<0.5	<3.0	<3.0
	2/15/1995	98.14	4.15	0.00	93.99	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	7/11/1995	98.14	4.74	0.00	93.40	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	1/15/1996	98.14	4.14	0.00	94.00	<50	--	--	<0.5	<0.5	<0.5	<1.0	<2.0	--
	7/25/1996	98.14	4.88	0.00	93.26	<50	--	--	<0.5	<0.5	<0.5	<1.0	--	--
	11/18/1996	98.14	3.93	0.00	94.21	--	--	--	--	--	--	--	--	--
MW12	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	12/7/2001	99.39	4.71	0.00	94.68	<50.0	<250	<500	0.625	1.01	<0.500	1.89	--	--
	3/27/2002	99.39	4.72	0.00	94.67	<100	<100	<100	<1.00	<1.00	<1.00	1.50	63.0	--
	6/7/2002	99.39	5.12	0.00	94.27	<100	745	<100	<1.0	<1.0	<1.0	1.4	36.0	<3.0
	9/4/2002	99.39	5.62	0.00	93.77	<100	126	<100	<1.0	<1.0	<1.0	<1.0	--	--
	12/20/2002	99.39	4.91	0.00	94.48	<100	460	150	<1.0	<1.0	<1.0	<1.0	--	--
	3/6/2003	99.39	5.02	0.00	94.37	<100	102	<100	<1.0	<1.0	<1.0	<1.0	--	--
	6/19/2003	99.39	5.44	0.00	93.95	<100	<100	<100	<1.00	1.7	<1.0	3.3	--	--
	9/18/2003	99.39	5.27	0.00	94.12	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	--	--
	12/12/2003	99.39	4.96	0.00	94.43	<100	<100	105	<1.00	<1.0	<1.0	<1.0	--	--
	12/20/2004	99.39	5.12	0.00	94.27	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	--	--
	12/21/2005	99.39	5.32	0.00	94.07	<100	<104	<104	<1.00	<1.00	<1.00	<3.00	11.0	<5.00
	12/6/2006	99.39	4.85	0.00	94.54	<100	<99.0	<99.0	<1.00	<1.00	<1.00	<3.00	--	<5.00
	7/30/2007	99.39	5.46	0.00	93.93	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	1/22/2008	99.39	4.93	0.00	94.46	<250	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/28/2008	99.39	5.15	0.00	94.24	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/26/2009	99.39	5.22	0.00	94.17	<100	178	174	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/7/2009	99.39	5.32	0.00	94.07	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	99.39	5.26	0.00	94.13	<100	<118	<118	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	99.39	4.44	0.00	94.95	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	6/29/2016	99.39	5.25	0.00	94.14	<100	<93.5	<93.5	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	10/6/2016	99.39	5.71	0.00	93.68	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	99.39	5.15	0.00	94.24	<100	20 J, HD	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	10/19/2017	99.39	5.30	0.00	94.09	<100	15 J,HD	<96	<0.5	<0.5	<0.5	<0.5	<6.0	<6.0
	6/14/2018	99.39	5.30	0.00	94.09	<100	19 HD,J	30 HD,J	<0.5	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	99.39	4.97	0.00	94.42	<100	54 HD, J	54 HD, J	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	99.39	5.55	0.00	93.84	<100	<93	<93	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	11/14/2019	99.39	--	0.00	--	Car parked over well, unable to monitor or sample.								
	3/5/2020	99.39	5.97	0.00	93.42	<100*	<93	<93	<0.2	<0.2	<0.4	<1	<7.1	<7.3
	6/25/2020	99.39	5.05	0.00	94.34	<100	<100	<100	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	99.39	5.57	0.00	93.82	<100	23 J,Z	<98	<3.0	<2.0	<3.0	<3.0	<15	<15.5
MW13	Screened Interval 4-19 ft bgs \ Total Well Depth 19 ft bgs													
	12/7/2001	100.05	6.11	0.00	93.94	353	300	<500	2.42	5.51	29.7	69.5	--	--
	3/27/2002	100.05	6.22	0.00	93.83	<100	<100	<100	<1.00	<1.00	1.3	<1.00	79.0	--
	6/7/2002	100.05	6.45	0.00	93.6	<100	469	<100	<1.0	<1.0	1.5	1.6	14.0	<3.0
	9/4/2002	100.05	6.67	0.00	93.38	<100	<100	103	<1.0	<1.0	<1.0	<1.0	--	--
	12/20/2002	100.05	6.22	0.00	93.83	<100	<100	122	<1.0	<1.0	<1.0	<1.0	--	--
	3/6/2003	100.05	6.38	0.00	93.67	<100	<200	<200	<1.0	<1.0	<1.0	<1.0	--	--
	6/19/2003	100.05	6.64	0.00	93.41	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	--	--
	9/18/2003	100.05	6.55	0.00	93.5	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	--	--
	12/12/2003	100.05	6.18	0.00	93.87	<100	<100	128	<1.00	<1.0	1.0	2.0	--	--
	12/20/2004	100.05	6.35	0.00	93.7	<100	<100	<100	<1.00	<1.0	<1.0	<1.0	--	--
	12/21/2005	100.05	7.30	0.00	92.75	<100	<103	<103	<1.00	<1.00	<1.00	<3.00	10.3	<5.00
	12/6/2006	100.05	6.35	0.00	93.7	<100	<101	<101	<1.00	<1.00	<1.00	<3.00	--	<5.00
	7/30/2007	100.05	6.66	0.00	93.39	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	1/22/2008	100.05	6.17	0.00	93.88	<250	<98.0	<98.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/28/2008	100.05	6.46	0.00	93.59	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/26/2009	100.05	6.57	0.00	93.48	<100	191	216	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/7/2009	100.05	6.64	0.00	93.41	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	100.05	6.29	0.00	93.76	<100	<143	<143	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	100.05	5.52	0.00	94.53	<100	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	6/29/2016	100.05	6.51	0.00	93.54	<100	<93.9	<93.9	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	10/6/2016	100.05	6.71	0.00	93.34	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	100.05	6.42	0.00	93.63	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	10/19/2017	100.05	6.51	0.00	93.54	<100	<96	<96	<0.5	<0.5	<0.5	<0.5	<6.0	<6.0
	6/14/2018	100.05	6.49	0	93.56	<100	30 HD,J	29 HD,J	<0.5	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	100.05	6.29	0.00	93.76	<100	<91	13 HD, J	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	100.05	6.70	0.00	93.35	<100	<91	100 HD	<0.2	<0.2	<0.4	<1	55.9	<7.1
	11/14/2019	100.05	6.70	0.00	93.35	<100	200 Z	64 J,Z	<0.2	<0.2	<0.4	<1	23.0	<7.1
	3/5/2020	100.05	6.24	0.00	93.81	<100*	<93	<93	<0.2	<0.2	<0.4	<1	<7.1	8.1 J
	6/25/2020	100.05	6.43	0.00	93.62	<100	<91	<91	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	100.05	6.30	0.00	93.75	<100	19 J,Z	<100	<3.0	<2.0	<3.0	<3.0	<15	<15.5

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	feet	feet bgs	feet bgs	feet	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
			MTCA Method A Cleanup Levels [a]			800/1,000[a]	500	500	5	1,000	700	1,000	--	15
MW14	Screened Interval 3-13 ft bgs \ Total Well Depth 13 ft bgs													
	7/30/2007	100.26	6.01	0.00	94.25	<100	<98.0	<98.0	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	1/22/2008	100.26	5.28	0.00	94.98	<250	<96.2	<96.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/28/2008	100.26	5.71	0.00	94.55	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/26/2009	100.26	5.82	0.00	94.44	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/7/2009	100.26	5.83	0.00	94.43	<100	<118	<118	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	100.26	5.64	0.00	94.62	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	100.26	Obstructed	--	--	--	--	--	--	--	--	--	--	--
	6/29/2016	100.26	5.77	0.00	94.49	<100	<93.9	<93.9	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	10/6/2016	100.26	5.85	0.00	94.41	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	100.26	5.63	0.00	94.63	<100	21 J, HD	<100	<1	<1	<1	<1	<6.2	<6.2
	10/19/2017	100.26	5.35	0.00	94.91	<100	24 J,HD	<100	<0.5	<0.5	<0.5	<0.5	<6.0	<6.0
	6/14/2018	100.26	5.47	0	94.79	<100	26 HD,J	27 HD,J	<0.5	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	100.26	5.43	0.00	94.83	<100	11 HD, J	<91	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	100.26	6.07	0.00	94.19	Roots in well, unable to sample.								
	11/14/2019	100.26	Roots in well, unable to monitor or sample.											
	3/5/2020	100.26	Roots in well, unable to monitor or sample.											
	6/25/2020	100.26	5.12	0.00	95.14	<100	<100	<100	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	100.26	5.10	0.00	95.16	<100	18 J,Z	<95	<3.0	<2.0	<3.0	<3.0	<15	<15.5
MW15	Screened Interval 2-12 ft bgs \ Total Well Depth 12 ft bgs													
	7/30/2007	100.07	6.34	0.00	93.73	<100	<97.1	<97.1	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	1/22/2008	100.07	6.05	0.00	94.02	<250	<95.2	<95.2	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/28/2008	100.07	6.16	0.00	93.91	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/26/2009	100.07	6.32	0.00	93.75	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/7/2009	100.07	6.41	0.00	93.66	<100	<105	<105	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	100.07	6.28	0.00	93.79	<100	<118	<118	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	100.07	Obstructed, well abandoned											
MW15A	Screened Interval 5-10 ft bgs \ Total Well Depth 10 ft bgs													
	6/29/2016	99.99	5.95	0.00	94.04	<100	<94.3	<94.3	<0.5	<1.00	<1.00	<3.00	<5.00	<5.00
	10/6/2016	99.99	5.97	0.00	94.02	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	99.99	5.75	0.00	94.24	<100	24 J, HD	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	10/19/2017	99.99	5.52	0.00	94.47	<100	77 J,HD	69 J,HD	<0.5	<0.5	<0.5	<0.5	<6.0	<6.0
	6/14/2018	99.99	5.7	0.00	94.29	<100	30 HD,J	26 HD,J	<0.5	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	99.99	5.72	0.00	94.27	<100	25 HD, J	64 HD, J	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	99.99	6.78	0.00	93.21	Roots in well, unable to sample.								
	11/14/2019	99.99	Roots in well, unable to monitor or sample.											
	3/5/2020	99.99	Roots in well, unable to monitor or sample.											
	6/25/2020	99.99	5.56	0.00	94.43	<100	<94	<94	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	99.99	5.35	0.00	94.64	<100	43 J,Z	18 J,Z	<3.0	<2.0	<3.0	<3.0	<15	<15.5
MW16	Screened Interval 5-15 ft bgs \ Total Well Depth 15 ft bgs													
	8/28/2008	99.68	5.59	0.00	94.09	<100	211	199	<1.00	<1.00	1.38	<3.00	<5.00	<5.00
	3/26/2009	99.68	5.63	0.00	94.05	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	8/7/2009	99.68	5.69	0.00	93.99	<100	<111	<111	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	12/29/2009	99.68	5.47	0.00	94.21	<100	<118	<118	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	3/14/2016	99.68	4.72	0.00	94.96	641	**907**	150	**6.60**	<1.00	<1.00	4.12	<5.00	11.2
	6/29/2016	99.68	5.73	0.00	93.95	367	314	<93.5	1.17	<1.00	<1.00	<3.00	13.8	<5.00
	10/6/2016	99.68	5.88	0.00	93.80	250 HD	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	99.68	5.55	0.00	94.13	420 HD	**610 HD**	<100	**7**	<0.5	<0.5	1	<6.2	<6.2
	10/19/2017	99.68	5.4	0.00	94.28	280 HD	430 HD	<100	2	2	3	14	<6.0	<6.0
	6/14/2018	99.68	5.60	0.00	94.08	230 HD	110 HD	25 HD,J	<0.5	<0.5	<0.5	<0.5	7.9 J	<7.1
	12/6/2018	99.68	5.37	0.00	94.31	360 HD	410 HD	<93	4	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	99.68	5.12	0.00	94.56	160 HD	98 HD	54 J,HD	2	<0.2	<0.4	<1	7.4 J	<7.1
	11/14/2019	99.68	5.02	0.00	94.66	250	220 Z	<93	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	3/5/2020	99.68	5.33	0.00	94.35	410 Z*	530 Z	<93	2	<0.2	<0.4	<1	<7.1	<7.3
	6/25/2020	99.68	5.43	0.00	94.25	430 Z	370 Z	<98	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	99.68	5.63	0.00	94.05	290 Z	170 Z	<96	<3.0	<2.0	<3.0	<3.0	<15	<15.5
SVE1	Screened Interval 3.5-13.5 ft bgs \ Total Well Depth 13.5 ft bgs													
	6/29/2016	100.16	6.16	0.00	94.00	**1,550**	261	<94.8	**17.2**	34.8	55.7	248	14.6	<5.00
	10/6/2016	100.16	6.18	0.00	93.98	<100	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	100.16	5.95	0.00	94.21	570 HD	450 HD	<100	**8**	<0.5	1 J	1	<6.2	<6.2
	10/19/2017	100.16	5.79	0.00	94.37	96 J	50 J,HD	<100	<0.5	<0.5	<0.5	2	<6.0	<6.0
	6/14/2018	100.16	5.99	0.00	94.17	220 HD	72 HD,J	27 HD,J	0.9 J	<0.5	<0.5	<0.5	<7.1	<7.1
	12/6/2018	100.16	5.77	0.00	94.39	120	36 HD, J	<91	0.9 J	<0.2	<0.4	6	<7.1	<7.1
	5/28/2019	100.16	6.31	0.00	93.85	160 HD	69 J,HD	40 J,HD	4	<0.2	<0.4	<1	89.8	<7.1
	11/14/2019	100.16	6.07	0.00	94.09	270	190 Z	<93	3	<0.2	<0.4	5 J	11.9 J	<7.1
	3/5/2020	100.16	5.81	0.00	94.35	380*	250 Z	<91	**9**	<0.2	0.6 J	<1	<7.1	<7.3
	6/25/2020	100.16	5.93	0.00	94.23	270 Z	52 J,Z	<93	3.1	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	100.16	5.80	0.00	94.36	35 J	24 J,Z	<96	<3.0	<2.0	<3.0	<3.0	<15	<15.5

Table 2
Historical Groundwater Monitoring and Analytical Data
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Well ID	Sampling Date	Wellhead Elevation	Depth to Water	Depth to NAPL	Groundwater Elevation	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total Lead	Dissolved Lead
	Units	**feet**	**feet bgs**	**feet bgs**	**feet**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
					MTCA Method A Cleanup Levels [a]	**800/1,000[a]**	**500**	**500**	**5**	**1,000**	**700**	**1,000**	**--**	**15**
SVE2	Screened Interval 3.5-13.5 ft bgs \ Total Well Depth 13.5 ft bgs													
	6/29/2016	99.33	5.53	0.00	93.80	<100	<94.3	<94.3	<1.00	<1.00	<1.00	<3.00	<5.00	<5.00
	10/6/2016	99.33	5.42	0.00	93.91	**850 HD**	480 HD	<100	**15**	2	<0.5	23	<6.2	<6.2
	6/1/2017	99.33	5.05	0.00	94.28	630 HD	220 HD	<100	0.8 J	<0.5	<0.5	1 J	<6.2	<6.2
	10/19/2017	99.33	5.01	0.00	94.32	680 HD	390 HD	33 J,HD	**15**	0.6 J	<0.5	23	<6.0	<6.0
	6/14/2018	99.33	5.19	0.00	94.14	670 HD	180 HD	24 HD,J	<0.5	<0.5	<0.5	1	<7.1	<7.1
	12/6/2018	99.33	4.89	0.00	94.44	80 HD, J	28 HD, J	18 HD, J	0.3 J	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	99.33	5.51	0.00	93.82	380 HD	140 HD	30 J,HD	0.3 J	0.3 J	<0.4	<1	28.5	<7.1
	11/14/2019	99.33	5.26	0.00	94.07	470	220 Z	<91	4	0.2 J	<0.4	<1	22.7	<7.1
	3/5/2020	99.33	4.86	0.00	94.47	190*	80	<91	<0.2	<0.2	<0.4	<1	<7.1	<7.3
	6/25/2020	99.33	4.97	0.00	94.36	360 Z	43 J,Z	<94	<3.0	<2.0	<3.0	<3.0	<15	<15.5
	9/24/2020	99.33	5.13	0.00	94.20	700 Z	560 Z	160 Z	8.1	0.69 J	<3.0	2.8 J	<15	<15.5
SVE3	Screened Interval 3.5-13.5 ft bgs \ Total Well Depth 13.5 ft bgs													
	10/6/2016	99.67	5.59	0	94.08	110 HD	<100	<100	<0.5	<0.5	<0.5	<0.5	<6.2	<6.2
	6/1/2017	99.67	5.19	0.00	94.48	840 HD	420 HD	<100	<0.5	<0.5	12	<0.5	<6.2	<6.2
	10/19/2017	99.67	5.11	0.00	94.56	<100	38 J,HD	36 J,HD	<0.5	<0.5	<0.5	<0.5	<6.0	<6.0
	6/14/2018	99.67	--	0.00	--	--	--	--	--	--	--	--	--	--
	12/6/2018	99.67	5.17	0.00	94.50	<100	17 HD, J	<91	<0.2	<0.2	<0.4	<1	<7.1	<7.1
	5/28/2019	99.67	Car parked over well, unable to monitor or sample											
	11/14/2019	99.67	Car parked over well, unable to monitor or sample											
	3/5/2020	99.67	Car parked over well, unable to monitor or sample											
	6/25/2020	99.67	5.12	0.00	94.55	46 J,Z	17 J, Z	<100	<3.0	<2.0	<3.0	<3.0	<15	7.35
	9/24/2020	99.67	Car parked over well, unable to monitor or sample											

Notes

µg/L	Micrograms per Liter
bgs	Below ground surface
NAPL	Non-aqueous phase liquid
TPHg	Total Petroleum Hydrocarbons as Gasoline analyzed in accordance with Ecology Method NWTPH-Gx
TPHd	Total Petroleum Hydrocarbons as Diesel, analyzed in accordance with Ecology Method NWTPH-Dx
TPHmo	Total Petroleum Hydrocarbons as Oil, analyzed in accordance with Ecology Method NWTPH-Dx
BTEX	Aromatic compounds in accordance with EPA Method 8020, 8021B, 8260B, or 8260C - refer to laboratory reports
Lead	Lead, total and dissolved in accordance with EPA Method 72421, 6020, 6010B, or 6010C - refer to laboratory reports
--	Not analyzed, not measured, or not applicable
<	Not detected at or above the stated laboratory reporting limit
HD or Z	Chromatographic profile inconsistent with pattern(s) of referenced fuel standards
*	Relative percent difference of the laboratory control sample (LCS) and LCS duplicate exceeds the control limits
J	Denotes a result that is an estimated value between the laboratory method detection limit and the method reporting limit
MTCA	Washington State Department of Ecology, Model Toxics Control Act Regulation and Statute, Publication No. 94-06, Revised 2013. Chapter 173-340 WAC: Table 720-1 "Method A Cleanup Levels for Ground Water"
a	TPHg cleanup level for groundwater is 800 µg/L if benzene is present, or 1,000 µg/L if benzene is not present
Bold	Bold and highlighted values equal or exceed MTCA Method A Cleanup Levels

Table 3
Historical Soil Analytical Results - Petroleum Hydrocarbons
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	TRPH	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	FOC
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
		MTCA Method A Cleanup Levels		--	30/100*	2,000	2,000	0.03	7	6	9	--
Science, Engineering & Analysis Corporation (SEACOR) - Site Assessment During the Removal of a Used Oil Underground Storage Tank Report - September 25, 1991:												
T1-E	E-6.5'	8/7/1991	6.5	95	--	--	--	--	--	--	--	--
T1-W	W-6.5'	8/7/1991	6.5	18	--	--	--	--	--	--	--	--
T1-B	B-6.8'	8/7/1991	6.8	200	--	--	--	--	--	--	--	--
	B-8	8/7/1991	8	<10	--	--	--	--	--	--	--	--
~~T1-SP-1~~	~~SP-1~~	~~8/7/1991~~	~~-~~	~~97~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~
~~T1-SP-2~~	~~SP-2~~	~~8/7/1991~~	~~-~~	~~16,000~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~	~~-~~
SEACOR - New Underground Used Oil Storage Tank Excavation Assessment Report - September 20,1991:												
~~A~~	~~A~~	~~8/20/1991~~	~~7.5~~	~~--~~	~~3.5~~	~~--~~	~~--~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<0.10~~	~~--~~
~~BB~~	~~BB~~	~~8/20/1991~~	~~4~~	~~--~~	~~**6,100**~~	~~--~~	~~--~~	~~**17**~~	~~**230**~~	~~**120**~~	~~**770**~~	~~--~~
~~B~~	~~B~~	~~8/20/1991~~	~~7.5~~	~~--~~	~~6.9~~	~~--~~	~~--~~	~~**0.19**~~	~~<0.10~~	~~0.29~~	~~1.6~~	~~--~~
~~DD~~	~~DD~~	~~8/20/1991~~	~~4~~	~~--~~	~~**650**~~	~~--~~	~~--~~	~~<0.050~~	~~3.2~~	~~**7.4**~~	~~**51**~~	~~--~~
~~D~~	~~D~~	~~8/20/1991~~	~~7.5~~	~~--~~	~~5.9~~	~~--~~	~~--~~	~~<0.050~~	~~0.11~~	~~<0.10~~	~~1.8~~	~~--~~
~~E~~	~~E~~	~~8/20/1991~~	~~9~~	~~--~~	~~**68**~~	~~--~~	~~--~~	~~**0.30**~~	~~1.7~~	~~1.1~~	~~7.1~~	~~--~~
~~SP-1~~	~~SP-1~~	~~8/20/1991~~	~~--~~	~~--~~	~~**240**~~	~~--~~	~~--~~	~~**0.27**~~	~~4.3~~	~~4.0~~	~~**27**~~	~~--~~
~~SP-2~~	~~SP-2~~	~~8/20/1991~~	~~--~~	~~--~~	~~**240**~~	~~--~~	~~--~~	~~<0.10~~	~~1.5~~	~~2.5~~	~~**190**~~	~~--~~
SEACOR - Subsurface Investigation - March 6, 1992:												
MW1	MW-1 3.5-5'	10/16/1991	3.5	--	<1	--	--	0.0099	<0.005	<0.005	0.0072	--
MW2	MW-2 5'	10/17/1991	5	--	16	--	--	**0.630**	0.160	0.480	2.50	--
MW3	MW-3 5'	10/17/1991	5	--	<1	--	--	<0.005	<0.005	<0.005	<0.005	--
MW4	MW-4 5'	10/17/1991	5	--	<1	--	--	0.016	0.014	<0.005	0.0093	--
	MW-4 6'	10/17/1991	6	--	**2,200**	--	--	<25	**140**	**41**	**270**	--
MW5	MW-5 5'	10/18/1991	5.5	--	<1	<5.0	--	<0.005	<0.005	<0.005	<0.005	--
MW6	MW-6 5-5.5	10/18/1991	5 - 5.5	--	<1	<5.0	--	<0.005	<0.005	<0.005	<0.005	--
MW7	MW-7 (5-5.5)	1/17/1992	5 - 5.5	--	<1	--	--	<0.005	<0.005	<0.005	<0.005	--
MW9	MW-9 (6-6.5)	1/17/1992	6 - 6.5	--	<1	--	--	<0.005	<0.005	<0.005	<0.005	--
MW10	MW-10 (5-5.5)	1/18/1992	5 - 5.5	--	<1	--	--	<0.005	<0.005	<0.005	<0.005	--
~~MW11~~	~~MW-11 (4.5-5)~~	~~1/18/1992~~	~~4.5 - 5~~	~~--~~	~~<1~~	~~--~~	~~--~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~<0.005~~	~~--~~
SEACOR - Installation of Groundwater Air Sparge Points Report - October 11, 1995:												
~~SWC#1~~	~~EX2864-SWC#1~~	~~10/3/1995~~	~~--~~	~~--~~	~~**46**~~	~~--~~	~~--~~	~~**0.23**~~	~~0.11~~	~~0.60~~	~~1.2~~	~~--~~
SEACOR - Installation of Additional Air Sparge Points Report - April 15, 1996:												
AS5	AS-5[c]	3/13/1996	20	--	--	--	--	--	--	--	--	--
AS6	AS-6[c]	3/13/1996	20	--	--	--	--	--	--	--	--	--
Environmental Resolutions, Inc. (ERI) - Laboratory Results of Hoist Excavation Soil Sample - June 30, 1999:												
~~N/A~~	~~H1-Comp~~	~~4/21/1999~~	~~3-5~~	~~--~~	~~**5,630**~~	~~**2,730**~~	~~**4,530**~~	~~**1.35**~~	~~<1.00~~	~~4.66~~	~~**29.9**~~	~~--~~
EA Engineering, Science, and Technology (EA) - Soil Investigation at Tosco Site # 3137 (Exxon 7-2864) - February 23, 2000:												
S1	S-1-3.0-3.6	11/16/1999	3.0 - 3.6	--	<5	--	--	<0.001	<0.001	<0.001	0.0026	--
	S-1-6.0-6.6	11/16/1999	6.0 - 6.6	--	55	--	--	<0.05	0.170	0.140	2.01	--
S2	S-2-4.0-4.6	11/16/1999	4.0 - 4.6	--	**240**	--	--	**0.05**	0.260	0.096	3.40	--
	S-2-5.9-6.6	11/16/1999	5.9 - 6.6	--	<5	--	--	<0.001	0.0023	<0.001	0.0041	--
S3	S-3-3.2-3.6	11/16/1999	3.2 - 3.6	--	<5	--	--	<0.001	<0.001	<0.001	<0.001	--
S4	S-4-5.2-5.6	11/16/1999	5.2 - 5.6	--	<5	--	--	<0.001	<0.001	<0.001	<0.001	--
S5	S-5	11/16/1999	--	--	---	---	---	---	---	---	---	---
S6	S-6-3.0-3.2	11/16/1999	3.0 - 3.2	--	<5	--	--	<0.001	<0.001	<0.001	<0.001	--
KHM Environmental Management, Inc. - Product Line Removal - June 15, 2000:												
DISP1	DISP1	4/7/2000	3	--	<5.00	--	--	<0.0500	<0.0500	<0.0500	<0.100	--
DISP2	DISP2	4/7/2000	3	--	**7,680**	--	--	<1.00	**21.4**	<28.0	<232	--
LINE 1	LINE 1	4/7/2000	3	--	<5.00	--	--	<0.0500	<0.0500	<0.0500	<0.100	--
LINE	LINE 2	4/7/2000	3	--	ND	--	--	ND	ND	ND	ND	--
LINE	LINE 3	4/7/2000	3	--	**61.8**	--	--	ND	ND	ND	1.0	--
LINE	LINE 4	4/7/2000	3	--	10.6	--	--	ND	ND	ND	0.212	--
LINE 5	LINE 5 (3')	4/14/2000	3	--	ND	--	--	ND	ND	ND	ND	--
LINE 6	LINE 6 (3')	4/14/2000	3	--	<5.00	--	--	<0.0500	<0.0500	<0.0500	<0.100	--
NEP	NEP (3')	4/10/2000	3	--	ND	--	--	ND	ND	ND	ND	--
NWP-1	NWP-1 (3')	4/10/2000	3	--	ND	--	--	ND	ND	ND	ND	--

Table 3
Historical Soil Analytical Results - Petroleum Hydrocarbons
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	TRPH	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	FOC
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
		MTCA Method A Cleanup Levels		--	30/100*	2,000	2,000	0.03	7	6	9	--
Environmental Associates, Inc. (EA) - Remedial Excavation Report - August, 31, 2000:												
EE-1	EE-1	4/10/2000	--	--	**130**	--	--	**1.2**	4.1	1.5	**30.2**	--
EE-3	EE-3	4/10/2000	--	--	**35**	--	--	<0.005	<0.005	0.024	0.008	--
EE-5	EE-5	4/10/2000	--	--	<5.0	--	--	<0.001	0.0022	<0.001	0.0022	--
SE-1	SE-1	4/11/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	<0.001	--
SE-2	SE-2	4/11/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	0.0408	--
SE-3	SE-3	4/11/2000	--	--	<5.0	--	--	<0.001	0.0014	<0.001	<0.001	--
SE-4	SE-4	4/11/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	<0.001	--
SE-5	SE-5	4/12/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	<0.001	--
SE-6	SE-6	4/12/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	<0.001	--
SE-10	SE-10	4/12/2000	--	--	<5.0	--	--	<0.001	<0.001	<0.001	<0.001	--
ERI - Monitoring Well Installation And Soil Sampling - January 30, 2002:												
MW12	B12-3	10/31/2001	3	--	<5.00	19.8	63.1	<0.0300	<0.0500	<0.0500	<0.100	--
MW13	B13-3	10/31/2001	3	--	<5.00	<10.0	<25.0	<0.0300	<0.0500	<0.0500	<0.100	--
ERI - Well Installation and Confirmation Boring Activities - September 21, 2007:												
MW14/B1	S-5-B1	6/18/2007	5	--	<4.70	<4.35	14.2	<0.0307	<0.102	<0.102	0.0691J	--
	S-13-B1	6/18/2007	13	--	<5.04	<4.55	5.19	<0.0308	<0.103	<0.103	<0.257	--
B2	S-5-B2	6/18/2007	5	--	<18.5	55.0	207	<0.102	0.437	<0.342	0.333J	--
	S-10-B2	6/18/2007	10	--	**4,970**	17.5	40.5	**5.67**	**67.1**	**30.4**	**188**	--
	S-15-B2	6/18/2007	15	--	**58.4**	<7.31	25.6	**0.437**	3.99	2.06	**13.2**	1.28
	S-20-B2	6/18/2007	20	--	<6.15	3.56J	95.8	<0.0407	0.0712J	<0.136	0.186J	4.22
~~B3~~	~~S-4-B3~~	~~6/18/2007~~	~~4~~	~~--~~	~~<4.96~~	~~5.92~~	~~28.1~~	~~**0.0481**~~	~~0.0709~~	~~0.0311~~	~~0.302~~	~~--~~
~~B4~~	~~S-4-B4~~	~~6/18/2007~~	~~4~~	~~--~~	~~<4.19~~	~~<4.40~~	~~90.4~~	~~0.00602~~	~~0.0216~~	~~0.00650~~	~~0.0493~~	~~--~~
B5	S-4-B5	6/18/2007	4	--	<5.20	10.5	138	0.00947	0.0306	0.00671	0.0485	--
B6	S-4.5-B6	6/18/2007	4.5	--	10.2	<4.26	28.9	**0.0357**	0.0969	0.0286	0.148	1.34
MW15/B7	S-5-B7	6/19/2007	5	--	<7.03	<5.11	2.81J	<0.00254	0.00694	<0.00254	0.00862	--
	S-13-B7	6/19/2007	13	--	<5.35	2.65J	6.71	<0.0344	<0.115	<0.115	<0.287	--
ERI - Drilling and Confirmation Boring Activities - November 21, 2007:												
B8	S-7-B8	9/27/2007	7	--	<5.99	<5.26	<5.26	<0.0359	<0.120	<0.120	<0.300	--
	S-15.5-B8	9/27/2007	15.5	--	<6.5	<5.27	28.3	<0.0439	<0.146	<0.146	<0.365	3.97
B9	S-7.5-B9	9/27/2007	7.5	--	32.3	19.3	136	**0.115**	<0.0920	0.103	<0.230	0.912
	S-15.5-B9	9/27/2007	15.5	--	<5.86	<4.78	10.9	<0.0346	<0.115	<0.115	0.331	--
B10	S-7-B10	9/27/2007	7	--	<5.04	<8.33	179	<0.0260	<0.0865	<0.0865	<0.216	0.802
	S-15-B10	9/27/2007	15	--	<5.90	<4.63	9.43	<0.0333	<0.111	<0.111	<0.277	--
B11	S-6-B11	9/27/2007	6	--	<5.06	<8.83	161	<0.0290	<0.0966	<0.0966	<0.242	--
	S-15-B11	9/27/2007	15	--	<5.83	<4.87	6.12	<0.0339	<0.113	<0.113	<0.283	--
B12	S-5-B12	9/27/2007	5	--	<4.52	4.55	111	<0.0268	<0.0892	<0.0892	<0.223	--
B13	S-4.5-B13	9/27/2007	4.5	--	<5.13	<20.8	222	<0.0297	<0.0990	<0.0990	<0.247	--
	S-13-B13	9/27/2007	13	--	<5.77	<4.94	9.15	<0.0343	<0.114	<0.114	<0.286	--
B14	S-5-B14	9/27/2007	5	--	<4.59	<4.31	171	<0.0299	<0.0996	<0.0996	<0.249	--
	S-15-B14	9/27/2007	15	--	<5.31	<4.47	<4.47	<0.0348	<0.116	<0.116	<0.290	--
B15	S-5-B15	9/27/2007	5	--	**49.4**	4.72	21.7	**0.116**	<0.0991	0.281	<0.248	--
	S-13.5-B15	9/27/2007	13.5	--	<5.74	<4.91	<4.91	<0.0339	<0.113	<0.113	<0.283	--
B16	S-5-B16	9/28/2007	5	--	<5.55	<4.44	19.7	0.0110	0.0128	0.00943	0.0684	--
B17	S-6-B17	9/28/2007	6	--	**115**	21.3	12.8	0.0253	0.0318	0.485	0.983	0.627
B18	S-6-B18	9/28/2007	6	--	<4.95	<4.5	19.4	0.00322	<0.00195	<0.00195	<0.00488	--
B19	S-6-B19	9/28/2007	6	--	<5.49	<4.44	14.5	<0.00197	<0.00197	<0.00197	<0.00493	--
B20	S-5.5-B20	9/28/2007	5.5	--	<5.47	<4.3	<4.3	<0.00208	<0.00208	<0.00208	<0.00520	--
B21	S-7-B21	9/28/2007	7	--	<5.18	15.6	33.0	<0.00199	<0.00199	<0.00199	<0.00497	--
ERI - Confirmation Borings and Well Installation Report - July 15, 2008:												
B22	S-5.2-B22	1/21/2008	5.2	--	<5.04	4.48	21.4	<0.0413	<0.118	<0.118	<0.295	--
B23	S-5.3-B23	1/21/2008	5.3	--	<5.63	<4.72	5.22	<0.0557	<0.159	<0.159	<0.398	--
B24	S-5-B24	1/21/2008	5	--	<4.30	<4.20	<4.20	<0.0355	<0.101	<0.101	<0.254	1.13
B25	S-4.10-B25	1/21/2008	4.8	--	**264**	19.4	32.7	**0.0560**	<0.102	0.790	3.89	--
B26	S-6-B26	1/21/2008	6	--	5.47	<4.88	31.6	<0.0345	<0.0986	<0.0986	<0.247	--
B27	S-7.10-B27	1/21/2008	7.8	--	29.3	<4.90	<4.90	<0.0243	<0.0694	<0.0694	<0.174	--
MW16/B28	S-6-B28	5/29/2008	6	--	**108**	11.9	50.9	**0.0485**	0.0375	0.365	1.26	1.49
	S-15-B28	5/29/2008	15	--	7.40	<4.98	20.1	<0.00216	<0.00216	<0.00216	<0.00540	--

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Location ID	Sample ID	Date	Depth	TRPH	TPHg	TPHd	TPHo	Benzene	Toluene	Ethylbenzene	Total Xylenes	FOC
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
		MTCA Method A Cleanup Levels		--	30/100*	2,000	2,000	0.03	7	6	9	--
ERI - Extraction Well Installation Report - June 29, 2009:												
SVE1/B29	S-6-B29	5/18/2009	6	--	**825**	142	115	0.0282	0.0551	**11.1**	**37.8**	--
	S-16-B29	5/18/2009	16	--	<4.79	<4.88	<4.88	0.00263	<0.00169	0.00531	0.0253	--
SVE2/B30	S-4-B30	5/18/2009	4	--	<5.79	6.96	24.8	**0.0319**	0.0333	0.0176	0.0362	--
	S-6-B30	5/18/2009	6	--	**46.8**	8.43	66.4	**0.0499**	0.00529	0.00982	0.354	--
	S-14-B30	5/18/2009	14	--	<4.72	<5.01	<5.01	<0.00193	<0.00193	<0.00193	<0.00482	--
SVE3/B31	S-6-B31	5/18/2009	6	--	**275**	19.3	51.6	**0.104**	0.0188	0.458	**22.0**	--
	S-14-B31	5/18/2009	14	--	<4.54	<4.60	15.1	<0.00168	<0.00168	0.00219	0.0145	--
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011 Tank Field Excavation:												
~~SP1~~	~~SP1~~	~~10/14/2010~~	~~-~~	~~-~~	~~<5.5~~	~~-~~	~~-~~	~~**0.071**~~	~~0.062~~	~~<0.055~~	~~<0.11~~	~~-~~
~~SP2~~	~~SP2~~	~~10/14/2010~~	~~-~~	~~-~~	~~**1,800**~~	~~-~~	~~-~~	~~**26**~~	~~**85**~~	~~**30**~~	~~**136**~~	~~-~~
~~SP3~~	~~SP3~~	~~10/14/2010~~	~~-~~	~~-~~	~~**350**~~	~~-~~	~~-~~	~~**1.7**~~	~~**8.5**~~	~~4.4~~	~~**20.6**~~	~~-~~
~~SP5~~	~~SP5~~	~~10/14/2010~~	~~-~~	~~-~~	~~<5.9~~	~~-~~	~~-~~	~~<0.020~~	~~<0.059~~	~~<0.059~~	~~<0.118~~	~~-~~
NS	NS-5.0[e]	10/14/2010	5	--	8.1	--	--	**0.053**	0.15	0.061	0.31	--
WS	WS-5.0	10/15/2010	5	--	<5.6	--	--	<0.020	<0.056	<0.056	<0.112	--
ES	ES-5.0	10/14/2010	5	--	<6.0	--	--	**0.066**	0.070	<0.060	<0.120	--
SS	SS-5.0	10/14/2010	5	--	<7.4	--	--	<0.020	<0.074	<0.074	<0.148	--
Farallon - Underground Storage Tank Site Assessment Report - April 19, 2011 Tank Field Excavation Continued:												
BE	BE-6.0	10/14/2010	6	--	23	--	--	**0.19**	0.71	0.29	1.38	--
BC	BC-7.0	10/15/2010	7	--	<6.2	--	--	0.030	0.067	<0.062	<0.124	--
BW	BW-6.0	10/15/2010	6	--	<11	--	--	**0.047**	0.18	<0.11	<0.22	--
NE	NE-4.0	10/27/2010	4	--	<6.1	--	--	<0.020	<0.061	<0.061	<0.122	--
NS	NS-5.0	10/15/2010	5	--	<5.3	--	--	**0.094**	0.28	<0.053	0.080	--
Farallon - Underground Storage Tank Site Assessment Report - April 19, 2011 Used Oil UST Excavation:												
~~SP6~~	~~SP6~~	~~10/14/2010~~	~~-~~	~~-~~	~~**540**~~	~~<150~~	~~<60~~	~~**1.6**~~	~~<0.34~~	~~**9.5**~~	~~**11.86**~~	~~-~~
~~SP7~~	~~SP7~~	~~10/14/2010~~	~~-~~	~~-~~	~~**130**~~	~~<30~~	~~<61~~	~~**0.57**~~	~~<0.12~~	~~1.4~~	~~0.58~~	~~-~~
~~SP8~~	~~SP8~~	~~10/14/2010~~	~~-~~	~~-~~	~~13~~	~~<29~~	~~<58~~	~~**0.050**~~	~~<0.12~~	~~0.14~~	~~0.22~~	~~-~~
ES	ES-6.0	10/14/2010	6	--	**38**	<28	<57	**0.19**	<0.063	0.67	0.49	--
WS	WS-6.0	10/14/2010	6	--	<6.9	<30	<61	<0.020	<0.069	<0.069	<0.138	--
BTM	BTM-7.0	10/14/2010	7	--	**4,300**	<250	<61	<0.60	<3.0	**19**	**49.6**	--
WWO	WWO-6	10/27/2010	6	--	<7.3	--	--	<0.020	<0.073	<0.073	0.088	--
Farallon - Underground Storage Tank Site Assessment Report - April 19, 2011 Pipe Run Excavation:												
~~SP9~~	~~SP9-3.0~~	~~10/15/2010~~	~~-~~	~~-~~	~~14~~	~~-~~	~~-~~	~~<0.023~~	~~<0.11~~	~~<0.11~~	~~<0.22~~	~~-~~
~~SP10~~	~~SP10~~	~~10/27/2010~~	~~-~~	~~-~~	~~15~~	~~-~~	~~-~~	~~0.022~~	~~<0.049~~	~~<0.049~~	~~0.228~~	~~-~~
PR1	PR1-3.0	10/15/2010	3	--	<6.5	--	--	<0.020	<0.065	<0.065	<0.130	--
PR2	PR2-3.0	10/15/2010	3	--	6.2	--	--	**0.042**	0.11	<0.061	0.263	--
PR3	PR3-3.0	10/15/2010	3	--	<5.7	--	--	<0.020	<0.057	<0.057	<0.114	--
PR4	PR4-3.0	10/15/2010	3	--	<5.4	--	--	<0.020	<0.054	<0.054	<0.108	--
PR5	PR5-3.0	10/15/2010	3	--	<7.0	--	--	<0.020	<0.070	<0.070	<0.140	--
PR6	PR6-4	10/27/2010	4	--	<6.4	--	--	<0.020	<0.064	<0.064	<0.128	--
PR7	PR7-4.0	10/27/2010	4	--	13	--	--	**0.039**	0.44	0.17	1.22	--
Cardno - Installation of Replacement Groundwater Monitoring Well MW15A and Subsurface Assessment Report - August 5, 2016:												
MW15A/B32	S-1.5-B32	6/21/2016	1.5	--	<0.113	5.25	30.4	<0.00173	<0.00173	<0.00173	<0.00433	--
	S-6-B32	6/21/2016	6	--	<0.134	<3.96	4.10	<0.00172	<0.00172	<0.00172	<0.00429	--
	S-8-B32	6/21/2016	8	--	<0.127	<4.34	<4.34	<0.00193	<0.00193	<0.00193	<0.00483	--
	S-13-B32	6/21/2016	13	--	<0.116	<3.90	5.77	<0.00182	<0.00182	<0.00182	<0.00456	--
Kleinfelder - Confirmation Soil Borings - August 7, 2019 to August 11, 2020:												
KLF-1	KLF-1-3	8/11/2020	3.0	--	3.0 J	--	--	<0.0012	<0.0059	0.00036 J	0.0013 J**	--
	KLF-1-6	8/11/2020	6.0	--	3.5 J	--	--	<0.00094	<0.0047	0.0033	0.013**	--
KLF-2	KLF 2-5	8/10/2020	5.0	--	<2.1	--	--	<0.00079	<0.0039	<0.00079	<0.0039	--
KLF-3	KLF 3-5	8/10/2020	5.0	--	<3.0	--	--	<0.0013	<0.0065	<0.0013	<0.0065	--
	KLF 3-6	8/10/2020	6.0	--	<2.3	--	--	<0.0012	<0.0061	<0.0012	<0.0061	--
KLF-4	KLF 4-5	8/10/2020	5.0	--	2.3	--	--	0.00033 J	0.00057 J	0.00020 J	0.00062 J	--
	KLF 4-7	8/10/2020	7.0	--	**160**	--	--	0.00063 J	<0.0042	0.0022	0.0013 J	--
KLF-5	KLF 5	8/10/2020	6.0	--	**120**	--	--	0.0099 J	0.0081 J	0.56	0.029 J	--
KLF-6	KLF 6	8/10/2020	4.0	--	3.5 J	--	--	0.0026	<0.0052	<0.0010	0.0016 J	--
KLF-7	KLF-7	8/11/2020	5.0	--	5.6	--	--	0.0008 J	<0.0054	0.00030 J	0.00089 J	--
KLF-8	KLF-8	8/11/2020	3.0	--	18	--	--	0.0065 J,H	0.16 H	0.065 H	0.41 H	--

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		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%
		MTCA Method A Cleanup Levels		--	30/100*	2,000	2,000	0.03	7	6	9	--
KLF-9	KLF-9	8/11/2020	5.0	--	**380**	--	--	**0.033 H**	<0.13 H	0.30 H	1.2 H	--
KLF-10	KLF 10-4.25	11/19/2019	4.25	--	8.0 J	--	--	<0.0018	<0.0088	0.00095 J	0.0073 J	--
	KLF 10-4.50	11/19/2019	4.5	--	**66**	--	--	0.0033	<0.0096	<0.0019	0.0033 J	--
	KLF 10-6.00	11/19/2019	6.0	--	**59**	--	--	0.0012 J	<0.0087	<0.0017	<0.013	--
KLF-11	KLF 11-5.5	11/19/2019	5.5	--	4.3 J	--	--	<0.0017	<0.0083	0.00072 J	<12.4	--
KLF-11A	KLF-11-1-6'	4/29/2020	6.0	--	<7.5	--	--	<0.0015	<0.0074	<0.0015	<0.0074	--
KLF-12	KLF 12-4.00	11/19/2019	4.0	--	--	--	--	<0.0016	--	--	--	--
	KLF 12-5.00	11/19/2019	5.0	--	10	--	--	0.00068 J	<0.0076	0.0033	<0.011	--
	KLF 12-6.00	11/19/2019	6.0	--	**650**	--	--	**0.370**	0.110 J	13	4.81	--
KLF-12A	KLF-12-1-4'	4/29/2020	4.0	--	--	--	--	<0.0015	--	--	--	--
	KLF-12-2-5'	4/29/2020	5.0	--	<9.3	--	--	0.00039 J	<0.0090	<0.0018	<0.0090	--
	KLF-12-3-6'	4/29/2020	6.0	--	<8.6	--	--	0.00032 J	<0.0083	<0.0017	<0.0083	--
KLF-13	KLF-13-1-6'	4/29/2020	6.0	--	<8.2	--	--	<0.0014	<0.0069	<0.0014	<0.0104	--
KLF-14	KLF-14-1-7.5'	4/29/2020	7.5	--	9.9	--	--	<0.0025	<0.012	<0.0025	<0.012	
KLF-15	KLF-15-010.75	8/7/2019	10.75	--	910 E	--	--	**0.30 E**	0.092	0.71 E	1.91 E	--
	KLF-15-015.75	8/7/2019	15.75	--	26	--	--	0.0041	0.0073 J	0.019	0.099	--
KLF-15A	KLF 15-10	11/19/2019	10.0	--	**690**	--	--	**0.72**	0.046 J	**7.5**	**12.9 H**	--
	KLF 15-15	11/19/2019	15.0	--	12	--	--	<0.060	<0.30	0.10	1.82 J,H	--
KLF-16	KLF-16-1-6'	4/29/2020	6.0	--	7.7 J	--	--	**0.082**	0.0015 J	0.087 H	0.230 J,H*	--
	KLF-16-2-7'	4/29/2020	7.0	--	9.4	--	--	**2.2 H**	0.0055 J	3.6 H	**13 H***	--

Notes

MTCA	Model Toxics Control Act, Regulation and Statute, Compiled by Washington State Department of Ecology Toxics Cleanup Program, Publication No. 94-06, Revised 2013. Chapter 173-340-900 WAC: Table 740-1 "Method A Soil Cleanup Levels for Unrestricted Land Uses"
bgs	Below ground surface
mg/kg	Milligrams per kilogram
%	Percent
--	Not analyzed, not measured, or not applicable
<	Not detected at or above the stated laboratory reporting limit
TRPH	Total Recoverable Petroleum Hydrocarbons in accordance with EPA Method 418.1, 9071/418.1, or 8015 - refer to laboratory reports
TPHg	Total Petroleum Hydrocarbons as Gasoline in accordance with EPA Method 8015 or Ecology Method WTPH-G or NWTPH-Gx - refer to laboratory reports
TPHd	Total Petroleum Hydrocarbons as Diesel, in accordance with Ecology Method NWTPH-Dx
TPHo	Total Petroleum Hydrocarbons as Heavy Oil, in accordance with Ecology Method NWTPH-Dx
BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes, in accordance with EPA Method 8020, 8020A, 8021B, 8260B, or 8260C - refer to laboratory reports
Lead	Total Lead in accordance with EPA Methods 6000/7000, 6010/200.7, 6020, 6010B, or 6010C - refer to laboratory reports
FOC	Fractional Organic Carbon in accordance with ASTM D2974
Bold	Bold and highlighted values equal or exceed MTCA Method A Cleanup Levels
~~Lined Out~~	Lined out samples were over excavated and removed from the site.
	Blue highlighted samples signify step out samples were collected
A	Step-out sample
*	TPHg soil cleanup level is 30 mg/kg, unless benzene is not detected in the sample, or if toluene, ethylbenzene, and total xylenes constitute less than 1% of the TPHg present in the sample. If these conditions are met, the cleanup level for TPHg may be elevated to 100 mg/kg.
e	A second sample, labeled NS-5.0, was collected on October 15, 2010 from the northern sidewall of the gasoline UST excavation
J	An estimated value between the laboratory method reporting limit and detection limit
**	LCS/LCSD RPD exceeds control limits
E	Result exceeded calibration range
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits
B	Compound was found in the blank and sample

Table 4
Historical Soil Analytical Results - Volatile and Extractable Petroleum Hydrocarbons
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	VPH							EPH									
				Aliphatics				Aromatics			Aliphatics					Aromatics				
				C5-C6	C6-C8	C8-C10	C10-C12	C8-C10	C10-C12	C12-C13	C8-C10	C10-C12	C12-C16	C16-C21	C21-C34	C8-C10	C10-C12	C12-C16	C16-C21	C21-C34
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		MTCA Method A Cleanup Levels		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Environmental Resolutions, Inc. (ERI) - Well Installation and Confirmation Boring Activities Report - September 21, 2007:																				
B2	S-10-B2	6/18/2007	10	383	368	337	595	385	159	81.0	45.4	36.3	18.3	<5.42	<5.42	108	69.8	45.0	<5.42	<5.42
~~B3~~	~~S-4-B3~~	~~6/18/2007~~	~~4~~	~~<5.12~~	~~<5.12~~	~~<5.12~~	~~<5.12~~	~~<5.12~~	~~<5.12~~	~~<5.12~~	~~<5.64~~	~~<5.64~~	~~<5.64~~	~~<5.64~~	~~2.63J~~	~~3.24J~~	~~<5.64~~	~~<5.64~~	~~<5.64~~	~~1.72J~~
~~B4~~	~~S-4-B4~~	~~6/18/2007~~	~~4~~	~~<4.32~~	~~<4.32~~	~~<4.32~~	~~<4.32~~	~~<4.32~~	~~<4.32~~	~~<4.32~~	~~<5.20~~	~~<5.20~~	~~<5.20~~	~~1.60J~~	~~33.3~~	~~3.51J~~	~~<5.20~~	~~<5.20~~	~~<5.20~~	~~<5.20~~
B5	S-4-B5	6/18/2007	4	<4.53	<4.53	<4.53	<4.53	<4.53	<4.53	0.467J	<5.52	<5.52	<5.52	<5.52	<5.52	3.54J	<5.52	<5.52	<5.52	<5.52
B6	S-4.5-B6	6/18/2007	5	<5.02	<5.02	<5.02	6.26	<5.02	<5.02	1.29J	<5.40	<5.40	<5.40	<5.40	<5.40	3.68J	<5.40	<5.40	<5.40	<5.40
B7	S-5-B7	6/19/2007	5	<6.78	<6.78	<6.78	<6.78	<6.78	<6.78	<6.78	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
ERI - Drilling and Confirmation Boring Activities Report - November 21, 2007:																				
B17	S-6-B17	9/28/2007	6	<5.35	21.4	25.1	133	22.2	29.3	9.58	<5.74	2.06 J	0.915 J	1.38 J	<5.74	<5.74	0.611 J	<5.74	2.28 J	<5.74
ERI - Confirmation Borings and Well Installation Report - July 15, 2008:																				
MW16/B28	S-6-B28	5/29/2008	6	<4.20	16.5	18.4	36.9	23.5	20.2	7.77	4.46 J	3.33 J	<5.37	<5.37	<5.37	2.76 J	4.06 J	2.53 J	<5.37	1.59 J
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011:																				
BTM	BTM-7.0	10/14/2010	7	46	1,000	89	1,070	780	460	69	36	32	15	<5.0	12	34	70	39	<5.0	9.0
Kleinfelder - Confirmation Soil Borings - August 7, 2019 to August 11, 2020:																				
KLF-1	KLF-1-3	8/11/2020	3.0	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<2.22	<2.22	<2.22	<2.22	4.99	<2.22	<2.22	<2.22	<2.22	2.33
	KLF-1-6	8/11/2020	6.0	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<2.37	<2.37	<2.37	<2.37	8.52	<2.37	<2.37	<2.37	<2.37	3.91
KLF-9	KLF-9	8/11/2020	5.0	<6.34	<6.34	<6.34	55.7	20.3	18.0	<6.34	8.92	18.8	9.12	2.31	32.2	<2.27	2.4	<2.27	<2.27	9.6
KLF-10	KLF-10-4.25	11/19/2019	4.25	<8.7	<8.7	<8.7	<8.7	1.5 J	<8.7	--	--	0.60 J	0.50 J	0.71 J	4.3 J	--	<5.4*	<5.4*	<5.4*	<5.4*
	KLF-10-4.50	11/19/2019	4.5	<9.1	<9.1	<9.1	3.3 J	2.8 J	11	--	--	1.7 J	2.9 J	1.3 J	3.3 J	--	1.5 J*	1.1 J*	<5.9*	<5.9*
	KLF-10-6.00	11/19/2019	6.0	<9.6	<9.6	2.9 J	3.6 J	2.6 J	12	--	--	38 J	21 J	<57	16 J	--	29 J*	24 J*	<57*	<57*
KLF-11	KLF 11-5.5	11/19/2019	5.5	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1	--	--	<56	<56	<56	<56	--	<56*	<56*	<56 F1*	<56 F1*
KLF-11A	KLF-11-1-6'	4/29/2020	6.0	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<2.22	<2.22	<2.22	<2.22	28	<2.22	<2.22	<2.22	<2.22	18.7
KLF-12	KLF 12-5.00	11/19/2019	5.0	<8.9	<8.9	<8.9	<8.9	1.9 J	3.7 J	--	--	<5.5	0.87 J	1.1 J	14	--	<5.5*	1.7 J*	<5.5*	3.0 J*
	KLF 12-6.00	11/19/2019	6.0	<12	19	39	38	70	120 E	--	--	37 E	16	4.2 J	21	--	33 E*	14*	1.3 J*	2.1 J*
KLF-12A	KLF-12-2-5'	4/29/2020	5.0	<8.85	<8.85	<8.85	<8.85	<8.85	<8.85	<8.85	<2.08	<2.08	<2.08	3.94	124	<2.08	<2.08	<2.08	3.18	92.0
	KLF-12-3-6'	4/29/2020	6.0	<8.89	<8.89	<8.89	<8.89	<8.89	<8.89	<8.89	<21.0	<21.0	<21.0	21.4	630	<21.0	<21.0	<21.0	<21.0	452
KLF-13	KLF-13-1-6'	4/29/2020	6.0	<11.1	<11.1	<11.1	<11.1	<11.1	<11.1	<11.1	<2.27	<2.27	<2.27	<2.27	43.8	<2.27	<2.27	<2.27	<2.27	27.0
KLF-14	KLF-14-1-7.5'	4/29/2020	7.5	<11.7	<11.7	<11.7	<11.7	<11.7	<11.7	<11.7	<2.41	<2.41	<2.41	<2.41	17.4	<2.41	<2.41	<2.41	<2.41	15.3
KLF-15	KLF-15-010.75	8/7/2019	10.75	240	100 J,H	230	160	170	200 H	--	--	17 J*	8.1 J*	<53*	22 J*	--	19 J*	12 J*	<53	<53
KLF-15A	KLF 15-10	11/19/2019	10.0	37	48 E	7.6 J	32	110 E	100 E	--	--	14	7.7	7.0	53	--	27 E*	9.6*	<5.6*	9.6*
KLF-16	KLF-16-1-6'	4/29/2020	6.0	<12.9	64.2	<12.9	173	116	50.3	15.7	49.9	59.3	23.2	10.8	232	4.75	7.5	11.1	6.23	135
KLF-16	KLF-16-2-7'	4/29/2020	7.0	<14.2	106	<14.2	157	119	39.5	<14.2	42.1	22.5	8.09	10.5	223	8.18	7.5	6.76	8.58	138

mg/kg	Milligrams per kilogram
bgs	Below ground surface
--	Not analyzed, not measured, or not applicable
C5-C6	Carbon chain range
<	Not detected at or above the stated laboratory reporting limit
~~Lined Out~~	Lined out samples were over excavated and removed from the site.
	Blue highlighted samples signify step out samples were collected
J	Denotes a result that is an estimated value, between the laboratory method detection limit and the method reporting limit
E	Result exceeded calibration range
F1	MS and/or MSD Recovery is outside acceptance limits
H	Sample was prepped or analyzed beyond the specified holding time
*	RPD of the LCS and LCSD exceeds the control limits
VPH	Volatile petroleum hydrocarbons in accordance with Ecology NWTPH/VPH
EPH	Extractable petroleum hydrocarbons in accordance with Ecology NWTPH/EPH

Table 5
Historical Soil Analytical Results - Detected Volatile Organic Compounds
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	1,2-DCB	1,4-DCB	1,2,3-TMB	1,2,4-TMB	1,3,5-TMB	1,2-EDB	1,2-EDC	n-Decane	n-Dodecane	n-Hexane	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	MTBE	n-Pentane	n-Propylbenzene	n-Octane	p-Isopropyltoluene	PCE	n-Butylbenzene	sec-Butylbenzene	1,1,1-TCA	TCE
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MTCA Method A Cleanup Levels				**--**	**--**		**--**	**--**	**0.005**	**--**			**--**		**--**	**0.02**	**0.1**		**--**		**--**	**0.05**		**--**	**2**	**0.03**
Science, Engineering & Analysis Corporation (SEACOR) - Site Assessment During the Removal of a Used Oil Underground Storage Tank - September 25, 1991:																										
~~T1-SP-2~~	~~SP-2~~	~~8/7/1991~~	~~--~~	~~5.8~~	~~0.53~~	~~--~~	~~--~~	~~--~~	~~--~~	~~<0.2~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~<1.0~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~**14**~~	~~--~~	~~--~~	~~**14**~~	~~<0.2~~
Environmental Resolutions, Inc. (ERI) - Well Installation and Confirmation Boring Activities Report - September 21, 2007:																										
B2	S-10-B2	6/18/2007	10	--	--	--	--	--	<0.0825	<0.0825	--	--	31.2	--	--	--	<0.0825	--	--	--	--	--	--	--	--	--
~~B3~~	~~S-4-B3~~	~~6/18/2007~~	~~4~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~<0.00230~~	~~<0.00230~~	~~--~~	~~--~~	~~0.0355~~	~~--~~	~~--~~	~~--~~	~~<0.00230~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
~~B4~~	~~S-4-B4~~	~~6/18/2007~~	~~4~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~<0.00182~~	~~<0.00182~~	~~--~~	~~--~~	~~0.00227J~~	~~--~~	~~--~~	~~--~~	~~<0.00482~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~	~~--~~
B5	S-4-B5	6/18/2007	4	--	--	--	--	--	<0.00201	<0.00201	--	--	0.00377J	--	--	--	<0.00201	--	--	--	--	--	--	--	--	--
B6	S-4.5-B6	6/18/2007	4.5	--	--	--	--	--	<0.00176	<0.00176	--	--	0.0256	--	--	--	<0.00176	--	--	--	--	--	--	--	--	--
MW15/B7	S-5-B7	6/19/2007	5	--	--	--	--	--	<0.00254	<0.00254	--	--	<0.0127	--	--	--	<0.00254	--	--	--	--	--	--	--	--	--
Environmental Resolutions, Inc. (ERI) - Drilling and Confirmation Boring Activities Report - November 21, 2007:																										
B17	S-6-B17	9/28/2007	6	--	--	--	--	--	<0.00214	<0.00214	--	--	0.208	--	--	--	<0.00214	--	--	--	--	--	--	--	--	--
Environmental Resolutions, Inc. (ERI) - Confirmation Borings and Well Installation Report - July 15, 2008:																										
MW16/B28	S-6-B28	5/29/2008	6	--	--	--	--	--	<0.00193	<0.00193	--	--	0.270J	--	--	--	<0.00193	--	--	--	--	--	--	--	--	--
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011:																										
BTM	BTM-7.0	10/14/2010	7	<0.60	<0.60	--	60	18	<0.60	<0.60	--	--	--	--	2.6	<3.0	<0.60	--	9.1	--	0.73	<0.60	3.1	1.2	<0.60	<0.60
Cardno - Installation of Replacement Groundwater Monitoring Well MW15A and Subsurface Assessment Report - August 5, 2016:																										
MW15A/B32	S-1.5-B32	6/21/2016	1.5	--	--	--	--	--	<0.00173	--	--	--	<0.00866	--	--	--	<0.00173	--	--	--	--	--	--	--	--	--
	S-6-B32	6/21/2016	6	--	--	--	--	--	<0.00172	--	--	--	<0.00858	--	--	--	<0.00172	--	--	--	--	--	--	--	--	--
	S-8-B32	6/21/2016	8	--	--	--	--	--	<0.00193	--	--	--	<0.00966	--	--	--	<0.00193	--	--	--	--	--	--	--	--	--
	S-13-B32	6/21/2016	13	--	--	--	--	--	<0.00182	--	--	--	<0.00912	--	--	--	<0.00182	--	--	--	--	--	--	--	--	--
Kleinfelder - Confirmation Soil Borings - August 7, 2019 to April 29, 2020:																										
KLF-11	KLF-11-1-6'	4/29/2020	6.0	--	--	<1.04	--	--	--	--	<1.04	<1.04	<1.04	--	--	--	<1.04	<1.04	--	<1.04	--	--	--	--	--	--
KLF-12	KLF 12-6.00	11/19/2019	6.0	<0.093	<0.140	--	14 H	1.9 H	<0.047	<0.047	--	--	--	<0.350	2.5	<0.580	<0.093	--	9.4	--	0.17	<0.093	2.9 H	0.86 J,H	<0.093	--
KLF-12A	KLF-12-2-5'	4/29/2020	5.0	--	--	<0.885	--	--	--	--	<0.885	<0.885	<0.885	--	--	--	<0.885	0.956	--	<0.885	--	--	--	--	--	--
	KLF-12-3-6'	4/29/2020	6.0	--	--	<0.889	--	--	--	--	<0.889	<0.889	<0.889	--	--	--	<0.889	<0.889	--	<0.889	--	--	--	--	--	--
KLF-13	KLF-13-1-6'	4/29/2020	6.0	--	--	<1.11	--	--	--	--	<1.11	<1.11	<1.11	--	--	--	<1.11	<1.11	--	<1.11	--	--	--	--	--	--
KLF-14	KLF-14-1-7.5'	4/29/2020	7.5	--	--	<1.17	--	--	--	--	<1.17	<1.17	<1.17	--	--	--	<1.17	<1.17	--	<1.17	--	--	--	--	--	--
KLF-15A	KLF 15-10	11/19/2019	10.0	<0.062	<0.093	--	18 H	5.2 H	<0.031	<0.031	--	--	--	0.058 J	1.3	<0.390	<0.062	--	4.2	--	0.330	<0.062	2.4 J,H	<0.062	<0.062	--
	KLF 15-15	11/19/2019	15.0	<0.081	<0.120	--	0.16 H	0.042 J,H	<0.040	<0.40	--	--	--	<0.30	0.018 J	<0.50	<0.081	--	0.067 J	--	<0.081	<0.081	0.063 J	<0.081	<0.081	--
KLF-16	KLF-16-1-6'	4/29/2020	6.0	--	--	7.52	--	--	--	--	4.21	10.5	1.42	--	--	--	<1.29	<0.129	--	4.18	--	--	--	--	--	--
	KLF-16-2-7'	4/29/2020	7.0	--	--	6.61	--	--	--	--	3.75	7.86	4.74	--	--	--	<1.42	<1.42	--	4.82	--	--	--	--	--	--

Notes

bgs	Below ground surface
mg/kg	Milligrams per kilogram
<	Not detected at or above the stated laboratory reporting limit
--	Not analyzed, not measured, or not applicable
Bold	Bold and highlighted values equal or exceed MTCA Method A Cleanup Levels
~~Lined Out~~	Lined out samples were over excavated and removed from the site.
	Blue highlighted samples signify step out samples were collected
J	Denotes a result that is an estimated value, between the laboratory method detection limit and the method reporting limit
H	Sample was prepped or analyzed beyond the specified holding time

Volatile Organic Compounds not included in Table 2, in accordance with EPA Method 8010, 8260B, 8260C or Ecology NWTPH/VPH refer to laboratory reports

Table 6
Historical Soil Analytical Results - Polycyclic Aromatic Hydrocarbons
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Indeno(1,2,3-cd)pyrene	cPAHs	1-methyl naphthalene	2-methyl naphthalene	Naphthalene
			Units	**feet bgs**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
			Toxic Equivalency Factor[a]		**0.01**	**0.1**	**0.1**	**1**	**0.01**	**0.1**	**0.1**	**--**	**--**	**--**	**--**
			MTCA Method A Cleanup Level[b]		**--**	**--**	**--**	**0.1**	**--**	**--**	**--**	**0.1[c]**	**--**	**--**	**5**
Environmental Resolutions, Inc. (ERI) - Well Installation and Confirmation Boring Activities Report - September 21, 2007:														
B2	S-10-B2	06/18/07	10	0.0253	0.0238	0.0253	0.0275	0.0293	0.00686	0.0126	0.0372	--	--	**30.3**
~~B3~~	~~S-4-B3~~	~~06/18/07~~	~~4~~	~~<0.00374~~	~~<0.00374~~	~~<0.00374~~	~~<0.00374~~	~~<0.00374~~	~~<0.00374~~	~~<0.00374~~	~~ND~~	~~--~~	~~--~~	~~0.401~~
~~B4~~	~~S-4-B4~~	~~06/18/07~~	~~4~~	~~0.00410~~	~~0.0104~~	~~0.0108~~	~~0.0123~~	~~0.00931~~	~~0.0171~~	~~0.0127~~	~~0.0179~~	~~--~~	~~--~~	~~0.0078~~
B5	S-4-B5	06/18/07	4	<0.00364	<0.00364	<0.00364	0.00364	<0.00364	<0.00364	<0.00364	ND	--	--	0.0307
B6	S-4.5-B6	06/18/07	5	<0.00381	<0.00381	<0.00381	<0.00381	0.00648	<0.00381	<0.00381	ND	--	--	0.0398
MW15/B7	S-5-B7	06/19/07	5	<0.00417	<0.00417	<0.00417	<0.00417	<0.00417	<0.00417	<0.00417	ND	--	--	0.0220
ERI - Drilling and Confirmation Boring Activities Report - November 21, 2007:														
B17	S-6-B17	09/28/07	6	<0.00387	<0.00387	<0.00387	<0.00387	<0.00387	<0.00387	<0.00387	ND	--	--	0.135
ERI - Confirmation Borings and Well Installation Report - July 15, 2008:														
MW16/B28	S-6-B28	05/29/08	6	<0.00356	<0.00356	<0.00356	<0.00356	<0.00356	<0.00356	<0.00356	ND	0.118	0.262	0.819
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011:														
BTM	BTM-7.0	10/14/10	7	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	ND	<0.0081	<0.0081	**8.7**
Cardno - Installation of Replacement Groundwater Monitoring Well MW15A and Subsurface Assessment Report - August 5, 2016:														
MW15A/B32	S-1.5-B32	06/21/16	1.5	<0.0669	<0.0669	<0.0669	<0.0669	<0.0669	<0.0669	<0.0669	ND	<0.0669	<0.0669	<0.0669
	S-6-B32	06/21/16	6	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	ND	<0.0668	<0.0668	<0.0668
	S-8-B32	06/21/16	8	<0.0731	<0.0731	<0.0731	<0.0731	<0.0731	<0.0731	<0.0731	ND	<0.0731	<0.0731	<0.0731
	S-13-B32	06/21/16	13	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	<0.0668	ND	<0.0668	<0.0668	<0.0668
Kleinfelder - Confirmation Soil Borings - August 7, 2019 to August 11, 2020:														
KLF-1	KLF-1-3	8/11/2020	3.0	<0.037	<0.037	<0.055 F2	<0.055	<0.055	<0.046	<0.037	ND	<0.028	<0.046	<0.023
	KLF-1-6	8/11/2020	6.0	<0.038	<0.038	<0.057	<0.057	<0.057	<0.048	<0.038	ND	0.019 J	0.083	0.022 J
KLF-9	KLF-9	8/11/2020	5.0	<0.038	<0.038	<0.057	<0.057	<0.057	<0.048	<0.038	ND	0.16	0.30	0.28
KLF-10	KLF-10-4.25	11/19/2019	4.25	--	--	--	--	--	--	--	--	0.063	0.18	0.060
	KLF-10-4.50	11/19/2019	4.5	--	--	--	--	--	--	--	--	0.170	0.390	0.260
	KLF-10-6.00	11/19/2019	6.0	--	--	--	--	--	--	--	--	2.60	4.30	1.40
KLF-11	KLF 11-5.5	11/19/2019	5.5	--	--	--	--	--	--	--	--	<0.033	0.0097 J	<0.027
KLF-11A	KLF-11-1-6'	4/29/2020	6.0	--	--	--	--	--	--	--	--	<1.04	--	<1.04
KLF-12	KLF 12-5.00	11/19/2019	5.0	--	--	--	--	--	--	--	--	0.062	0.059	0.018 J
	KLF 12-6.00	11/19/2019	6.0	--	--	--	--	--	--	--	--	2.0	4.1	**6.4**
KLF-12A	KLF-12-2-5'	4/29/2020	5.0	--	--	--	--	--	--	--	--	<0.885	--	<0.885
	KLF-12-3-6'	4/29/2020	6.0	--	--	--	--	--	--	--	--	<0.889	--	<0.889
KLF-13	KLF-13-1-6'	4/29/2020	6.0	--	--	--	--	--	--	--	--	<1.11	--	<1.11
KLF-14	KLF-14-1-7.5'	4/29/2020	7.5	--	--	--	--	--	--	--	--	<1.17	--	<1.17
KLF-15A	KLF 15-10	11/19/2019	10.0	--	--	--	--	--	--	--	--	0.840	1.80	1.10
	KLF 15-15	11/19/2019	15.0	--	--	--	--	--	--	--	--	--	--	0.14 J
KLF-16	KLF-16-1-6'	4/29/2020	6.0	--	--	--	--	--	--	--	--	2.89	--	**5.29**
	KLF-16-2-7'	4/29/2020	7.0	--	--	--	--	--	--	--	--	1.79	--	3.60

Notes

mg/kg	Milligrams per kilogram
bgs	Below ground surface
--	Not analyzed, not measured, or not applicable
<	Less than the stated laboratory reporting limit
BOLD	Highlighted and bold values equal or exceed MTCA Method A Cleanup Levels
~~Lined Out~~	Lined out samples were over excavated and removed from the site.
	Blue highlighted samples signify step out samples were collected
cPAHs	Carcinogenic PAHs. Sum of laboratory reported concentrations of B(a)P, B(b)F, B(k)F, Chrysene, DBA, and IP (for concentrations below the laboratory reporting limit a value of half the reporting limit was used) with each chemical multiplied by the Toxic Equivalence Factor prior to summation.
a	Washington State Department of Ecology, *Evaluation the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures Using Toxicity Equivalency Factors* .
b	Washington Administrative Code, Model Toxics Control Act Cleanup Regulation, Chapter 173-340.
c	Cleanup level of 0.1 is for combined cPAHs.
J	Denotes a result that is an estimated value, between the laboratory method detection limit and the method reporting limit
F2	MS/MSD RPD exceeds control limits

Polynuclear Aromatic Hydrocarbons were analyzed in accordance with EPA Method 8270C SIM or Ecology NWTPH/VPH refer to laboratory reports

Table 7
Historical Soil Analytical Results - Polychlorinated Biphenyls
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
		Units	**feet bgs**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
MTCA Method A Cleanup Levels				**1[a]**						
SEACOR - Site Assessment During the Removal of a Used Oil Underground Storage Tank - September 25, 1991:										
~~T1-SP-2~~	~~SP-2~~	~~08/07/91~~	~~--~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.050~~
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011:										
BTM	BTM-7.0	10/14/10	7	<0.061	<0.061	<0.061	<0.061	<0.061	<0.061	<0.061

Notes

mg/kg	Milligrams per kilogram
bgs	Below ground surface
--	Not analyzed, not measured, or not applicable
<	Less than the stated laboratory reporting limit
BOLD	Highlighted and bold values equal or exceed MTCA Method A Cleanup Levels
~~Lined Out~~	Lined out samples were over excavated and removed from the site.
a	Cleanup level is a total value for all PCBs

Polychlorinated Biphenyls (PCBs) = Aroclor-1016, -1221, -1232, -1242, -1278, -1254, and -1260 in accordance with EPA Method 8080

Table 8
Historical Soil Analytical Results - Metals
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
		Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		MTCA Method A Cleanup Levels		20	--	2	--	--	250	2	--	--	--	--
Science, Engineering & Analysis Corporation (SEACOR) - Subsurface Investigation - March 6, 1992:														
MW1	MW-1 3.5-5'	10/16/1991	3.5	--	--	--	--	--	<10	--	--	--	--	--
MW2	MW-2 5'	10/17/1991	5	--	--	--	--	--	<10	--	--	--	--	--
MW3	MW-3 5'	10/17/1991	5	--	--	--	--	--	<10	--	--	--	--	--
MW4	MW-4 5'	10/17/1991	5	--	--	--	--	--	<10	--	--	--	--	--
	MW-4 6'	10/17/1991	6	--	--	--	--	--	<10	--	--	--	--	--
MW5	MW-5 5'	10/18/1991	5.5	--	--	--	--	--	<10	--	--	--	--	--
MW6	MW-6 5-5.5	10/18/1991	5 - 5.5	--	--	--	--	--	<10	--	--	--	--	--
MW7	MW-7 (5-5.5)	1/17/1992	5 - 5.5	--	--	--	--	--	<10	--	--	--	--	--
MW9	MW-9 (6-6.5)	1/17/1992	6 - 6.5	--	--	--	--	--	<10	--	--	--	--	--
MW10	MW-10 (5-5.5)	1/18/1992	5 - 5.5	--	--	--	--	--	<10	--	--	--	--	--
~~MW11~~	~~MW-11 (4.5-5)~~	~~1/18/1992~~	~~4.5 - 5~~	--	--	--	--	--	~~<10~~	--	--	--	--	--
Product Line Removal - KHM Environmental Management, Inc. - June 15, 2000:														
DISP1	DISP1	4/7/2000	3	--	--	--	--	--	5.09	--	--	--	--	--
DISP2	DISP2	4/7/2000	3	--	--	--	--	--	4.03	--	--	--	--	--
LINE 1	LINE 1	4/7/2000	3	--	--	--	--	--	1.67	--	--	--	--	--
LINE	LINE 2	4/7/2000	3	--	--	--	--	--	1.98	--	--	--	--	--
LINE	LINE 3	4/7/2000	3	--	--	--	--	--	4.13	--	--	--	--	--
LINE	LINE 4	4/7/2000	3	--	--	--	--	--	7.79	--	--	--	--	--
LINE 5	LINE 5 (3')	4/14/2000	3	--	--	--	--	--	7.98	--	--	--	--	--
LINE 6	LINE 6 (3')	4/14/2000	3	--	--	--	--	--	2.24	--	--	--	--	--
NEP	NEP (3')	4/10/2000	3	--	--	--	--	--	11.0	--	--	--	--	--
NWP-1	NWP-1 (3')	4/10/2000	3	--	--	--	--	--	10.1	--	--	--	--	--
Environmental Resolutions, Inc. (ERI) - Monitoring Well Installation And Soil Sampling - January 30, 2002:														
MW12	B12-3	10/31/2001	3	--	--	--	--	--	2.29	--	--	--	--	--
MW13	B13-3	10/31/2001	3	--	--	--	--	--	2.52	--	--	--	--	--
ERI - Well Installation and Confirmation Boring Activities - September 21, 2007:														
MW14/B1	S-5-B1	6/18/2007	5	--	--	--	--	--	4.34	--	--	--	--	--
B2	S-15-B2	6/18/2007	15	--	--	--	--	--	7.99	--	--	--	--	--
Drilling and Confirmation Boring Activities - ERI - November 21, 2007:														
B8	S-15.5-B8	9/27/2007	15.5	--	--	--	--	--	12.1	--	--	--	--	--
B9	S-7.5-B9	9/27/2007	7.5	--	--	--	--	--	4.24	--	--	--	--	--
B21	S-7-B21	9/28/2007	7						3.00	--	--	--	--	--
ERI - Confirmation Borings and Well Installation Report - July 15, 2008:														
B25	S-4.10-B25	1/21/2008	4.8	--	--	--	--	--	11.3	--	--	--	--	--
MW16/B28	S-6-B28	5/29/2008	6	--	--	--	--	--	16.5	--	--	--	--	--
ERI - Extraction Well Installation Report - June 29, 2009:														
SVE1/B29	S-6-B29	5/18/2009	6	--	--	--	--	--	10.0	--	--	--	--	--
SVE2/B30	S-4-B30	5/18/2009	4	--	--	--	--	--	3.20	--	--	--	--	--
Farallon Consulting (Farallon) - Underground Storage Tank Site Assessment Report - April 19, 2011 Used Oil UST Excavation:														
BTM	BTM-7.0	10/14/2010	7	--	--	--	--	--	11	--	--	--	--	--
Cardno - Installation of Replacement Groundwater Monitoring Well MW15A and Subsurface Assessment Report - August 5, 2016:														
MW15A/B32	S-1.5-B32	6/21/2016	1.5	--	--	--	--	--	7.51	--	--	--	--	--
	S-6-B32	6/21/2016	6	--	--	--	--	--	2.75	--	--	--	--	--
	S-8-B32	6/21/2016	8	2.68	24	<1.07	27.0	7.39	2.31	<0.109	26.8	<2.14	<1.07	16.8
	S-13-B32	6/21/2016	13	--	--	--	--	--	2.76	--	--	--	--	--

Notes

mg/kg	Milligrams per kilogram
bgs	Below ground surface
--	Not analyzed, not measured, or not applicable
<	Less than the stated laboratory reporting limit
BOLD	Highlighted and bold values equal or exceed MTCA Method A Cleanup Levels

Total Metals in accordance with EPA Method 6010C

Table 9
Summary of Exceeding Samples Removed from the Site
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Location ID	Sample ID	Date	Depth (feet bgs)	Exceedances
Removed from Site during August 7, 1991 excavation of and removal of the north used oil UST (Science and Engineering Analysis Corporation [SEACOR], 1991a)				
T1-SP-2	SP-2	8/7/1991	--	PCE (14 mg/kg) and 1,1,1-TCA (14 mg/kg)
Removed from Site during August 20, 1991 excavation and installation of the west used oil UST (SEACOR, 1991b)				
SP-1	SP-1	8/20/1991	--	TPHg (240 mg/kg), B (0.27 mg/kg) and X (27 mg/kg)
SP-2	SP-2	8/20/1991	--	TPHg (240 mg/kg) and X (190 mg/kg)
Removed from Site during October 3, 1995 installation of Air Sparge Points (SEACOR, 1995)				
SWC#1	EX2864-SWC#1	10/3/1995	--	TPHg (46 mg/kg) and B (0.23 mg/kg)
Removed from Site during April 21, 1999 hoist removal (Environmental Resolutions, Inc. [ERI], 1999)				
N/A	H1 Comp	4/21/1999	3 - 5	TPHg (5,630 mg/kg), TPHd (2,730 mg/kg), TPHo (4,530 mg/kg), B (1.35 mg/kg) and X (20.9 mg/kg)
Removed from Site during the October 2010 UST system removal and remedial excavation (Farallon, 2011)				
BB	BB	8/20/1991	4	TPHg (6,100 mg/kg), B (17 mg/kg), T (230 mg/kg), E (120 mg/kg), X (770 mg/kg)
B	B	8/20/1991	7.5	B (0.19 mg/kg)
DD	DD	8/20/1991	4	TPHg (650 mg/kg), E (7.4 mg/kg) and X (51 mg/kg)
E	E	8/20/1991	9	TPHg (68 mg/kg), B (0.30 mg/kg)
B3	S-4-B3	6/18/2007	4	B (0.0481 mg/kg)
SP1	SP1	10/14/2010	--	B (0.071 mg/kg)
SP2	SP2	10/14/2010	--	TPHg (1,800 mg/kg), B (26 mg/kg), T (85 mg/kg), E (30 mg/kg) and X (136 mg/kg)
SP3	SP3	10/14/2010	--	TPHg (350 mg/kg), B (1.7 mg/kg), T (8.5 mg/kg) and X (20.6 mg/kg)
SP6	SP6	10/14/2010	--	TPHg (540 mg/kg), B (1.6 mg/kg), E (9.5 mg/kg) and X (11.86 mg/kg)
SP7	SP7	10/14/2010	--	TPHg (130 mg/kg) and B (0.57 mg/kg)
SP8	SP8	10/14/2010	--	B (0.050 mg/kg)

Notes

PCE	Tetrachloroethene	E	Ethylbenzene
TCA	Trichloroethane	X	Total Xylenes
B	Benzene	bgs	Below ground surface
T	Toluene	mg/kg	Milligrams per kilogram

TPHg	Total Petroleum Hydrocarbons as Gasoline in accordance with EPA Method 8015 or Ecology Method WTPH-G or NWTPH-Gx - refer to laboratory reports
TPHd	Total Petroleum Hydrocarbons as Diesel, in accordance with Ecology Method NWTPH-Dx
TPHo	Total Petroleum Hydrocarbons as Heavy Oil, in accordance with Ecology Method NWTPH-Dx

SEACOR (Science and Engineering Analysis Corporation), 1991a. *Site Assessment During the Removal of a Used Oil Underground Storage Tank* , Exxon Service Station 7-2864, 14014 Bellevue-Redmond Road, Bellevue, Washington, SEACOR Job No. 00091-006-01. September 25.

SEACOR, 1991b. *New Underground Used Oil Storage Tank Excavation Assessment* , Exxon Service Station 7-2864, 14014 Bellevue-Redmond Road, Bellevue, Washington, (SEACOR Job No. 00091-006-01). September 20.

SEACOR, 1995. Installation of Groundwater Air Sparge Points at Exxon 7-2864 Located at 14014 Bellevue-Redmond Road, Bellevue, Washington. October 11.

ERI, 1999. Hoist Excavation Soil Sample Report. June 30.

Farallon, 2011. *Underground Storage Tank Site Assessment Report* , Former Exxon Service Station 7-2864 Property, 14014 Bellevue-Redmond Road, Bellevue, Washington, Farallon PN: 277-001. April 19.

Table 10
Summary of Confirmation Sampling and Proposed Excavations
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Confirmation Group ID	Coresponding Proposed Excavation ID	Associated Location ID	Associated Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
					Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					MTCA Method A Cleanup Levels		30/100*	0.03	7	6	9	5
A	--	MW4	MW-4 6'	10/17/1991	6	**2,200**	<25	**140**	**41**	**270**	--
		DISP2	DISP2	4/7/2000	3	**7680**	<1.00	**21.4**	<28.0	<232	--
		KLF-1	KLF-1-3	8/11/2020	3.0	3.0 J	<0.0012	<0.0059	0.00036 J	0.0013 J**	<0.023
			KLF-1-6	8/11/2020	6.0	3.5 J	<0.00094	<0.0047	0.0033	0.013 **	0.022 J
B		ES	ES-5.0	10/14/2010	5	<6.0	**0.066**	0.070	<0.060	<0.120	--
		KLF-2	KLF 2-5	8/10/2020	5.0	<2.1	<0.00079	<0.0039	<0.00079	<0.0039	--
C		BE	BE-6.0	10/14/2010	6	23	**0.19**	0.71	0.29	1.38	--
		NS	NS-5.0[e]	10/14/2010	5	8.1	**0.053**	0.15	0.061	0.31	--
		KLF-3	KLF 3-5	8/10/2020	5.0	<3.0	<0.0013	<0.0065	<0.0013	<0.0065	--
			KLF 3-6	8/10/2020	6.0	<2.3	<0.0012	<0.0061	<0.0012	<0.0061	--
D	EX1	NS	NS-5.0	10/15/2010	5	<5.3	**0.094**	0.28	<0.053	0.080	--
		BC	BC-7.0	10/15/2010	7	<6.2	0.030	0.067	<0.062	<0.124	--
		KLF-4	KLF 4-5	8/10/2020	5.0	2.3	0.00033 J	0.00057 J	0.00020 J	0.00062 J	--
			KLF 4-7	8/10/2020	7.0	**160**	0.00063 J	<0.0042	0.0022	0.0013 J	--
E		BW	BW-6.0	10/15/2010	6	<11	**0.047**	0.18	<0.11	<0.22	--
		KLF-5	KLF 5	8/10/2020	6.0	**120**	0.0099 J	0.0081 J	0.56	0.029 J	--
F	--	PR7	PR7-4.0	10/27/2010	4	13	**0.039**	0.44	0.17	1.22	--
		KLF-6	KLF 6	8/10/2020	4.0	3.5 J	0.0026	<0.0052	<0.0010	0.0016 J	--
G		MW2	MW-2 5'	10/17/1991	5	16	**0.630**	0.160	0.480	2.50	--
		KLF-7	KLF-7	8/11/2020	5.0	5.6	0.0008 J	<0.0054	0.00030 J	0.00089 J	--
H		PR2	PR2-3.0	10/15/2010	3	6.2	**0.042**	0.11	<0.061	0.263	--
		LINE	Line 3	4/7/2000	3	**61.8**	ND	ND	ND	1.0	--
		KLF-8	KLF-8	8/11/2020	3.0	18	0.0065 J,H	0.16 H	0.065 H	0.41 H	--
I	EX3	B25	S-4.10-B25	1/21/2008	4.8	**264**	**0.0560**	<0.102	0.790	3.89	0.819
		KLF-9	KLF-9	8/11/2020	5.0	**380**	**0.033 H**	<0.13 H	0.30 H	1.2 H	0.28
J		S2	S-2-4.0-4.6	11/16/1999	4.0 - 4.6	**240**	**0.05**	0.260	0.096	3.40	--
		EE-1	EE-1	4/10/2000	--	**130**	**1.2**	4.1	1.5	**30.2**	--
		B6	S-4.5-B6	6/18/2007	4.5	10.2	**0.0357**	0.0969	0.0286	0.148	--
		MW16/B28	S-6-B28	5/29/2008	6	**108**	**0.0485**	0.0375	0.365	1.26	--
		KLF-10	KLF 10-4.25	11/19/2019	4.25	8.0 J	<0.0018	<0.0088	0.00095 J	0.0073 J	0.060
			KLF 10-4.50	11/19/2019	4.5	**66**	0.0033	<0.0096	<0.0019	0.0033 J	0.260
			KLF 10-6.00	11/19/2019	6.0	**59**	0.0012 J	<0.0087	<0.0017	<0.013	1.4
K	--	B17	S-6-B17	9/28/2007	6	**115**	0.0253	0.0318	0.485	0.983	--
		SVE1/B29	S-6-B29	5/18/2009	6	**825**	0.0282	0.0551	**11.1**	**37.8**	--
		KLF-11	KLF 11-5.5	11/19/2019	5.5	4.3 J	<0.0017	<0.0083	0.00072 J	<12.4	<0.027
		KLF-11A	KLF-11-1-6'	4/29/2020	6.0	<7.5	<0.0015	<0.0074	<0.0015	<0.0074	<1.04
L	EX4	B15	S-5-B15	9/27/2007	5	**49.4**	**0.116**	<0.0991	0.281	<0.248	0.135
		SVE2/B30	S-4-B30	5/18/2009	4	<5.79	**0.0319**	0.0333	0.0176	0.0362	--
			S-6-B30	5/18/2009	6	**46.8**	**0.0499**	0.00529	0.00982	0.354	--
		KLF-12	KLF 12-4.00	11/19/2019	4.0	--	<0.0016	--	--	--	--
			KLF 12-5.00	11/19/2019	5.0	10.0	0.00068 J	<0.0076	0.0033	<0.011	**0.018 J**
			KLF 12-6.00	11/19/2019	6.0	**650**	**0.37**	0.11 J	13	4.81	**6.4**
		KLF-12A	KLF-12-1-4'	4/29/2020	4.0	--	<0.0015	--	--	--	<0.885
			KLF-12-2-5'	4/29/2020	5.0	<9.3	0.00039 J	<0.0090	<0.0018	<0.0090	<0.889
			KLF-12-3-6'	4/29/2020	6.0	<8.6	0.00032 J	<0.0083	<0.0017	<0.0083	--
M	--	SVE3/B31	S-6-B31	5/18/2009	6	**275**	**0.104**	0.0188	0.458	**22.0**	--
		KLF-13	KLF-13-1-6'	4/29/2020	6.0	<8.2	<0.0014	<0.0069	<0.0014	<0.0069	<1.11
N		B9	S-7.5-B9	9/27/2007	7.5	32.3	**0.115**	<0.0920	0.103	<0.230	--
		KLF-14	KLF-14-1-7.5'	4/29/2020	7.5	9.9	<0.0025	<0.012	<0.0025	<0.012	<1.17
O	EX5	B2	S-10-B2	6/18/2007	10	**4,970**	**5.67**	**67.1**	**30.4**	**188**	**30.3**
			S-15-B2	6/18/2007	15	**58.4**	**0.437**	3.99	2.06	**13.2**	--
		KLF-15	KLF-15-010.75	8/7/2019	10.75	910 E	**0.30 E**	0.092	0.71 E	1.91 E	--
			KLF-15-015.75	8/7/2019	15.75	26	0.0041	0.0073 J	0.019	0.099	--
		KLF-15A	KLF 15-10	11/19/2019	10.0	**690**	**0.72**	0.046 J	**7.5 J**	**11 H**	1.1
			KLF 15-15	11/19/2019	15.0	12	<0.060	<0.30	0.10	0.15 J,H	0.14 J

Table 10
Summary of Confirmation Sampling and Proposed Excavations
Former Exxon Service Station 72864
14014 Northeast Bellevue-Redmond Road
Bellevue, Washington

Confirmation Group ID	Coresponding Proposed Excavation ID	Associated Location ID	Associated Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene
					Units	feet bgs	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					MTCA Method A Cleanup Levels		30/100*	0.03	7	6	9	5
P	EX6	ES	ES-6.0	10/14/2010	6	**38**	**0.19**	<0.063	0.67	0.49	--
		BTM	BTM-7.0	10/14/2010	7	**4,300**	<0.60	<3.0	**19**	**49.6**	**8.7**
		KLF-16	KLF-16-1-6'	4/29/2020	6.0	7.7 J	**0.082**	0.0015 J	0.087 H	0.23 J,H	**5.29**
			KLF-16-2-7'	4/29/2020	7.0	9.4	**2.2**	0.0055 J	3.6 H	**13 H ****	3.60
Q	EX2	EE-3	EE-3	4/10/2000	--	**35**	<0.005	<0.005	0.024	0.008	--

Notes

bgs	Below ground surface
mg/kg	Milligrams per kilogram
TPHg	Total Petroleum Hydrocarbons as Gasoline in accordance with USEPA Method 8015 or Ecology Method WTPH-G or NWTPH-Gx
USEPA	United States Environmental Protection Agency
*	TPHg soil cleanup level is 30 mg/kg, unless benzene is not detected in the sample, or if toluene, ethylbenzene, and total xylenes constitute less than 1% of the TPHg present in the sample. If these conditions are met, the cleanup level for TPHg may be elevated to 100 mg/kg.
**	LCS/LCSD RPD exceeds control limits
--	Not analyzed, not measured, or not applicable
J	An estimated value between the laboratory method reporting limit and detection limit
H	Sample was prepped or analyzed beyond the specified holding time
<	Not detected at or above the stated laboratory reporting limit
E	Result exceeded calibration range
Bold	Bold and green highlighted confirmation IDs indicated that the most recent confirmation sample is below MTCA Method A Cleanup Levels.
Bold	Bold and red highlighted confirmation IDs indicated that the most recent confirmation sample is equal to or exceeds MTCA Method A Cleanup Levels.
Blue	Blue text indicates the most recent confirmation sample
Bold	Bold and grey highlighted values equal or exceed MTCA Method A Cleanup Levels

APPENDIX A
SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

SAMPLE/SAMPLER TYPE GRAPHICS

HAND AUGER

STANDARD PENETRATION SPLIT SPOON SAMPLER (2 in. (50.8 mm.) outer diameter and 1-3/8 in. (34.9 mm.) inner diameter)

WELL MATERIAL GRAPHICS

WELL BACKFILL MATERIAL GRAPHICS

GROUND WATER GRAPHICS

- WATER LEVEL (level where first observed)
- WATER LEVEL (level after exploration completion)
- WATER LEVEL (additional levels after exploration)
- OBSERVED SEEPAGE

NOTES

- The report and graphics key are an integral part of these logs. All data and interpretations in this log are subject to the explanations and limitations stated in the report.
- Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual or differ from those shown.
- No warranty is provided as to the continuity of soil or rock conditions between individual sample locations.
- Logs represent general soil or rock conditions observed at the point of exploration on the date indicated.
- In general, Unified Soil Classification System designations presented on the logs were based on visual classification in the field and were modified where appropriate based on gradation and index property testing.
- Fine grained soils that plot within the hatched area on the Plasticity Chart, and coarse grained soils with between 5% and 12% passing the No. 200 sieve require dual USCS symbols, ie., GW-GM, GP-GM, GW-GC, GP-GC, GC-GM, SW-SM, SP-SM, SW-SC, SP-SC, SC-SM.
- If sampler is not able to be driven at least 6 inches then 50/X indicates number of blows required to drive the identified sampler X inches with a 140 pound hammer falling 30 inches.

ABBREVIATIONS

WOH - Weight of Hammer
WOR - Weight of Rod

UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487)

COARSE GRAINED SOILS (More than half of material is larger than the #200 sieve)	**GRAVELS** (More than half of coarse fraction is larger than the #4 sieve)	CLEAN GRAVEL WITH <5% FINES	Cu≥4 and 1≤Cc≤3	**GW**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			Cu<4 and/ or 1>Cc>3	**GP**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH 5% TO 12% FINES	Cu≥4 and 1≤Cc≤3	**GW-GM**	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
				GW-GC	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
			Cu<4 and/ or 1>Cc>3	**GP-GM**	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE FINES
				GP-GC	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE CLAY FINES
		GRAVELS WITH > 12% FINES		**GM**	SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
				GC-GM	CLAYEY GRAVELS, GRAVEL-SAND-CLAY-SILT MIXTURES
	SANDS (Half or more of coarse fraction is smaller than the #4 sieve)	CLEAN SANDS WITH <5% FINES	Cu≥6 and 1≤Cc≤3	**SW**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			Cu<6 and/ or 1>Cc>3	**SP**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH 5% TO 12% FINES	Cu≥6 and 1≤Cc≤3	**SW-SM**	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
				SW-SC	WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
			Cu<6 and/ or 1>Cc>3	**SP-SM**	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE FINES
				SP-SC	POORLY GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE CLAY FINES
		SANDS WITH > 12% FINES		**SM**	SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-GRAVEL-CLAY MIXTURES
				SC-SM	CLAYEY SANDS, SAND-SILT-CLAY MIXTURES

FINE GRAINED SOILS (Half or more of material is smaller than the #200 sieve)	SILTS AND CLAYS (Liquid Limit less than 50)	**ML**	INORGANIC SILTS AND VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, SILTS WITH SLIGHT PLASTICITY
		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		CL-ML	INORGANIC CLAYS-SILTS OF LOW PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		OL	ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS (Liquid Limit 50 or greater)	**MH**	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
		CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		OH	ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.: 20171407
DRAWN BY:
CHECKED BY:
DATE:
REVISED: -

GRAPHICS KEY

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX
1

PLOTTED: 09/18/2020 04:26 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A [ENV-LEGEND 1 (GRAPHICS KEY) WITH USCS]
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB

Date Begin - End:	8/11/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-01**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 4 ½ inch section
	Hand Auger		KLF-1-3		150.8			**Silty SAND (SM)**: brown, moist, loose to medium dense
5	Hollow Stem Auger		KLF-1-6		50.9			**Silty SAND (SM)**: grey, moist to wet, medium dense
10								
15								

The borehole was terminated at approximately 6.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 11, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 11, 2020.

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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-01

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX
A-2

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/10/2020	**Drilling Company:**	Geologic Drill Partners		**BORING LOG KLF-02**
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 4 ½ inch section
	Hand Auger				6.4			**Poorly Graded SAND with Silt (SP-SM)**: brown, moist, loose to medium dense
	Hollow Stem Auger		KLF 2-5		12.2			
5								**Silty SAND (SM)**: grey, moist to wet, medium dense
10								
15								

The borehole was terminated at approximately 5.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 10, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 10, 2020.

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PROJECT NO.: 20171407	BORING LOG KLF-02		APPENDIX
DRAWN BY: W. WILLOW			A-3
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/10/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-03**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 4 inch section
	Hand Auger				3.6			**Silty SAND with Gravel (SM)**: brown, moist, loose to medium dense
5	Hollow Stem Auger		KLF 3-5		4.9			**Poorly Graded GRAVEL with Silt and Sand (GP-GM)**: grey, moist to wet, medium dense
			KLF 3-6		2.9			
10								
15								

The borehole was terminated at approximately 6.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 10, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 10, 2020.

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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-03

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX
A-4

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/10/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-04**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 3 inch section
	Hand Auger				30.8			**Poorly Graded GRAVEL with Silt and Sand (GP-GM)**: brown, moist, medium dense
			KLF 4-5		331.2			**Sandy SILT with Gravel (ML)**: moist, medium stiff
5	Hollow Stem Auger		KLF 4-7		208.6			**Silty SAND (SM)**: grey, moist, medium dense becomes wet, brown mottling
10								
15								

The borehole was terminated at approximately 7.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 10, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 10, 2020.

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PROJECT NO.: 20171407	BORING LOG KLF-04		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-5
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/10/2020	**Drilling Company:**	Geologic Drill Partners		**BORING LOG KLF-05**
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt
	Hand Auger							**Sandy SILT with Gravel (ML)**: brown, moist, medium stiff
					28.9			**Poorly Graded GRAVEL with Sand (GP)**: brown, moist, loose, fine subrounded gravels (pea gravel)
5	Hollow Stem Auger		KLF 5		108.9			
								Sandy SILT (ML): brown, wet, medium stiff
10								
15								

The borehole was terminated at approximately 6.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 10, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 10, 2020.

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PROJECT NO.: 20171407	BORING LOG KLF-05		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-6
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/10/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-06**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
	Hand Auger							**Asphalt**: 5 inch section
								Poorly Graded GRAVEL with Sand (GP): brown, moist, loose
			KLF 6		18.7			**Sandy SILT (ML)**: brown, moist, soft, trace gravels
5								
10								
15								

The borehole was terminated at approximately 4.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 10, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 10, 2020.

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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-06

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-7

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/11/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-07**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 3 inch section
								Silty SAND (SM): brown, moist, loose to medium dense, trace gravels
	Hand Auger				7.8			
	Hollow Stem Auger		KLF 7		20.6			
5								
10								
15								

The borehole was terminated at approximately 5.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 11, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 11, 2020.

KLEINFELDER
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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-07

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX
A-8

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/11/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-08**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
	Hand Auger		KLF-8		91.1			**Asphalt**: 4 inch section **Silty SAND with Gravel (SM)**: brown, moist, medium dense

The borehole was terminated at approximately 3.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 11, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 11, 2020.

5
10
15

KLEINFELDER
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PROJECT NO.: 20171407	BORING LOG KLF-08		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-9
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/11/2020	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-09**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 80's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	VOC	Graphical Log	Lithologic Description
								Asphalt: 6 inch section
	Hand Auger				89.4			**Poorly Graded GRAVEL with Sand (GP)**: brown, moist, medium stiff
	Hollow Stem Auger		KLF 7		15.6			**Silty SAND (SM)**: gray, moist, loose
5								
10								
15								

The borehole was terminated at approximately 5.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 11, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on August 11, 2020.

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PROJECT NO.: 20171407	BORING LOG KLF-09		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-10
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	11/19/2019	**Drilling Company:**	Kleinfelder	**BORING LOG KLF-10**
Logged By:	W. Rosso	**Drill Crew:**	W. Rosso	
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger	
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column	
Weather:	Overcast, 45's	**Auger Diameter:**	4" in. O.D.	

FIELD EXPLORATION

Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							Asphalt: 6 inch section
	Hand Auger		KLF 10-4.25		15.1		**Poorly Graded GRAVEL with Sand (GP)**: brown, moist, medium stiff
	Hollow Stem Auger		KLF 10-4.50		170.3		**Silty SAND (SM)**: gray, moist, loose
5			KLF 10-6.00		130.1		
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on November 19, 2019.
The boring was backfilled with bentonite and patched with asphalt at surface on November 19, 2019.

KLEINFELDER
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PROJECT NO.: 20171407	BORING LOG KLF-10		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-11
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [_KLF_ENVIRONMENTAL LOG]

Date Begin - End:	11/19/2019	**Drilling Company:**	Kleinfelder	**BORING LOG KLF-11**
Logged By:	W. Rosso	**Drill Crew:**	W. Rosso	
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger	
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column	
Weather:	Overcast, 45's	**Auger Diameter:**	4" in. O.D.	

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt Lithologic Description
	Hand Auger				15.9		**Asphalt**: 6 inch section **Poorly Graded GRAVEL with Sand (GP)**: brown, moist, medium stiff
5			KLF 11-5.5		20.2		**Silty SAND (SM)**: gray, moist, loose
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on November 19, 2019.
The boring was backfilled with bentonite and patched with asphalt at surface on November 19, 2019.

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PROJECT NO.: 20171407	BORING LOG KLF-11		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-12
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [_KLF_ENVIRONMENTAL LOG]

Date Begin - End:	4/29/2020	**Drilling Company:**	Kleinfelder
Logged By:	B. O'Brien	**Drill Crew:**	B. O'Brien
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	Not Available	**Auger Diameter:**	4" in. O.D.

BORING LOG KLF-11A

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt / Lithologic Description
	Hand Auger						**Asphalt**: 6 inch section
							Poorly Graded GRAVEL with Sand (GP): brown, moist, medium stiff
			KLF-11-1-6'				**Silty SAND (SM)**: gray, moist, loose
5							
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on April 29, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on April 29, 2020.

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-11A

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-13

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	11/19/2019	**Drilling Company:**	Kleinfelder
Logged By:	W. Rosso	**Drill Crew:**	W. Rosso
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	Overcast, 45's	**Auger Diameter:**	4" in. O.D.

BORING LOG KLF-12

FIELD EXPLORATION

Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
	Hand Auger						**Asphalt**: 6 inch section
							Poorly Graded GRAVEL with Sand (GP): brown, moist, medium stiff
			KLF 12-4.00		10.3		
							Silty SAND (SM): gray, moist, loose
			KLF 12-5.00		63.8		
5			KLF 12-6.00		620.5		
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on November 19, 2019.
The boring was backfilled with bentonite and patched with asphalt at surface on November 19, 2019.

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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-12

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-14

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	4/29/2020	**Drilling Company:**	Kleinfelder
Logged By:	B. O'Brien	**Drill Crew:**	B. O'Brien
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	Not Available	**Auger Diameter:**	4" in. O.D.

BORING LOG KLF-12A

FIELD EXPLORATION

Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							Asphalt: 6 inch section
							Poorly Graded GRAVEL with Sand (GP): brown, moist, medium stiff
	Hand Auger		KLF-12-1-4'		10.3		
							Silty SAND (SM): gray, moist, loose
			KLF-12-2-5'		63.8		
5			KLF-12-3-6'		620.5		
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on April 29, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on April 29, 2020.

KLEINFELDER
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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-12A

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-15

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	4/29/2020	**Drilling Company:**	Kleinfelder
Logged By:	B. O'Brien	**Drill Crew:**	B. O'Brien
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	Not Available	**Auger Diameter:**	4" in. O.D.

BORING LOG KLF-13

FIELD EXPLORATION

Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
	Hand Auger						
			KLF-13-1-6'				
5							
10							
15							

The borehole was terminated at approximately 6 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on April 29, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on April 29, 2020.

KLEINFELDER
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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-13

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-16

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	4/29/2020	**Drilling Company:**	Kleinfelder
Logged By:	B. O'Brien	**Drill Crew:**	B. O'Brien
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column
Weather:	Not Available	**Auger Diameter:**	4" in. O.D.

BORING LOG KLF-14

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt / Lithologic Description
5	Hand Auger		KLF-14-1-7.5'				
10							
15							

The borehole was terminated at approximately 7.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on April 29, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on April 29, 2020.

KLEINFELDER
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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-14

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-17

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:\KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	8/07/2019	**Drilling Company:**	Boretec	**BORING LOG KLF-15**	
Logged By:	B. O'Brien	**Drill Crew:**	Carlos		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	CME 95 Track	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Sunny, 70's	**Auger Diameter:**	5' 7/8" in. O.D.		

FIELD EXPLORATION

Latitude: °
Longitude: °
Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							ASPHALT: approximately 12 inches thick
							Sandy GRAVEL with Silt (GW-GM): tan to gray, moist, medium dense
	Hand Auger				0.1		**Sandy SILT (ML)**: gray, moist, soft to medium stiff
					0.0		
5							**Silty SAND (SM)**: gray, wet, loose, trace gravel
					0.3		
							Silty SAND with Gravel (SM): dark bluish gray, wet, loose to medium dense
					0.2		
10	Hollow Stem Auger		KLF-15-010.75		370		
					17.7		
							Gravelly SAND with Silt (SW-SM): dark gray, wet, dense
			KLF-15-015.75		18.0		
15							

The borehole was terminated at approximately 16 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was observed at approximately 5 ft. below ground surface during drilling.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on August 07, 2019.
The boring was backfilled with bentonite and asphalt patch at surface on August 07, 2019.

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PROJECT NO.: 20171407	BORING LOG KLF-15		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-18
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

Date Begin - End:	11/19/2019	**Drilling Company:**	Geologic Drill Partners	**BORING LOG KLF-15A**	
Logged By:	W. Rosso	**Drill Crew:**	Blaine/Anthony		
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	MiniTrack	**Hammer Type - Drop:**	140 lb. Auto - 30 in.
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column		
Weather:	Overcast, 45's	**Auger Diameter:**	6" in. O.D.		

FIELD EXPLORATION

Surface Condition: Asphalt

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Lithologic Description
							ASPHALT: approximately 12 inches thick
							Sandy GRAVEL with Silt (GW-GM): tan to gray, moist, medium dense
	Hand Auger				0.3		**Sandy SILT (ML)**: gray, moist, soft to medium stiff
					0.2		
5							**Silty SAND (SM)**: gray, wet, loose, trace gravel
					1.3		
					42.8		**Silty SAND with Gravel (SM)**: dark bluish gray, wet, loose to medium dense
10	Hollow Stem Auger		KLF 15-10		207.8		
					289.8		
							Gravelly SAND with Silt (SW-SM): dark gray, wet, dense
			KLF 15-15		410.2		
15							

The borehole was terminated at approximately 15.5 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on November 19, 2019.
The boring was backfilled with bentonite and patched with asphalt at surface on November 19, 2019.

KLEINFELDER
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PROJECT NO.: 20171407	BORING LOG KLF-15A		APPENDIX
DRAWN BY: W. WILLOW			
CHECKED BY: M. STEIN	FORMER EXXON SERVICE STATION 72864 14014 NE Bel-Red Rd Bellevue, WA		A-19
DATE: 9/18/2020			
REVISED: -			PAGE: 1 of 1

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [_KLF_ENVIRONMENTAL LOG]

Date Begin - End:	4/29/2020	**Drilling Company:**	Kleinfelder	**BORING LOG KLF-16**
Logged By:	B. O'Brien	**Drill Crew:**	B. O'Brien	
Hor.-Vert. Datum:	Not Available	**Drilling Equipment:**	Hand Auger	
Plunge:	-90 degrees	**Drilling Method:**	See Drilling Method Column	
Weather:	Not Available	**Auger Diameter:**	4" in. O.D.	

FIELD EXPLORATION

Depth (feet)	Drilling Method	Sample Type	Sample Number	Recovery (NR=No Recovery)	PID (ppmv)	Graphical Log	Surface Condition: Asphalt Lithologic Description
	Hand Auger						
			KLF-16-1-6'				
5			KLF-16-2-7'				
10							
15							

The borehole was terminated at approximately 7 ft. below ground surface.

GROUNDWATER LEVEL INFORMATION:
Groundwater was not observed during drilling or after completion.
GENERAL NOTES:
A MiniRae 3000 was used for environmental field screening calibrated on April 29, 2020.
The boring was backfilled with bentonite and patched with asphalt at surface on April 29, 2020.

KLEINFELDER
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PROJECT NO.:	20171407
DRAWN BY:	W. WILLOW
CHECKED BY:	M. STEIN
DATE:	9/18/2020
REVISED:	-

BORING LOG KLF-16

FORMER EXXON SERVICE STATION 72864
14014 NE Bel-Red Rd
Bellevue, WA

APPENDIX

A-20

PLOTTED: 09/18/2020 04:22 PM BY: WWillow
OFFICE FILTER: RIVERSIDE
PROJECT NUMBER: 20171407.001A
gINT FILE: Klf_gint_master_2017
gINT TEMPLATE: E:KLF_STANDARD_GINT_LIBRARY_2017.GLB [KLF_ENVIRONMENTAL LOG]

SECOR

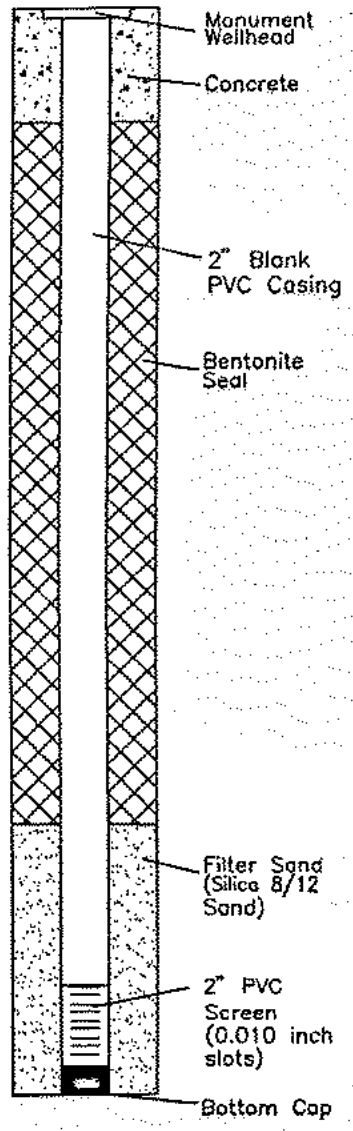
BORING LOG

BORING AS-1
PAGE 1 OF 1

PROJECT EXXON #7-2864 LOCATION 14014 BEL-RED ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION - CASING TOP ELEVATION -
START 0815 10/3/95 FINISH 0833 10/3/95
SAMPLER D.M. PHELAN MONITORING DEVICE MICROTIP PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC; LIMITED ACCESS CME-55 RIG
COMMENTS NO SOIL SAMPLES COLLECTED

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	2" thick asphalt	
				Gravel with little Sand, trace Silt, fine subrounded gravel, fine to medium sand, (90,10,0,0)*, moist to wet, pea gravel backfill**	GP
			5	Increase in Silt, wet	
			▽		
			10		
			15	Sandy Silt with Gravel, trace Clay, brownish gray, mostly fines with low to medium plasticity, some fine to medium sand, few gravel, (pea gravel backfill), (10,30,60,0), saturated	ML
			20	Boring terminated at 20 feet.	
				Groundwater encountered at approximately 7.5 feet during drilling.	
				Boring converted to a air sparge point on 10/3/95	
				* Percentage of soil types shown in this order: (G,S,M,C), gravel, sand, silt, and clay (Percentages are approximate, based on field observations)	
				** Soil descriptions and groundwater level based on drill cuttings observations	
			25		

Well Construction Details



SECOR

BORING LOG

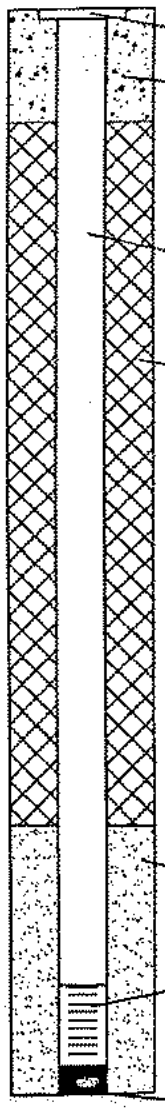
BORING AS-2
PAGE 1 OF 1

PROJECT EXXON #7-2864 LOCATION 14014 BEL-RED ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION - CASING TOP ELEVATION -
START 0910 10/3/95 FINISH 0925 10/3/95
SAMPLER D.M. PHELAN MONITORING DEVICE MICROTIP PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC; LIMITED ACCESS CME-55 RIG
COMMENTS NO SOIL SAMPLES COLLECTED

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Well Construction Details
			0	2" thick asphalt		Monument Wellhead; Concrete
			5	Silty Sand with Gravel, dark gray, few fine to coarse subrounded to subangular gravel, mostly fine to coarse sand, some fines with low to medium plasticity, moist to wet (10,60,30,0)*, **	SM	2" Blank PVC Casing; Bentonite Seal
			10			
			15	Sandy Silt with trace Clay, dark brownish gray, some fine to medium sand, mostly fines with low to medium plasticity, saturated (0,30,70,0)	ML	Filter Sand (Silica 8/12 Sand); 2" PVC Screen (0.010 inch slots)
			20	Boring terminated at 20 feet. Groundwater encountered at approximately 8 feet during drilling. Boring converted to a air sparge point on 10/3/95		Bottom Cap
			25			

* Percentage of soil types shown in this order: (G,S,M,C), gravel, sand, silt, and clay (Percentages are approximate, based on field observations)

** Soil descriptions and groundwater level based on drill cuttings observations



SECOR

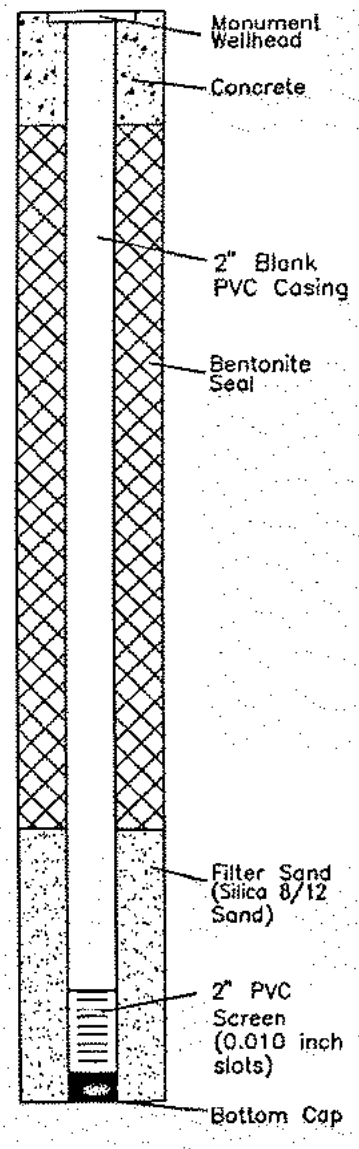
BORING LOG

BORING AS-3
PAGE 1 OF 1

PROJECT EXXON #7-2864 LOCATION 14014 BEL-RED ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION - CASING TOP ELEVATION -
START 0910 10/3/95 FINISH 0925 10/3/95
SAMPLER D.M. PHELAN MONITORING DEVICE MICROTIP PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC; LIMITED ACCESS CME-55 RIG
COMMENTS NO SOIL SAMPLES COLLECTED

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	5" thick asphalt	
				Silty Sand with Gravel and trace Cobble, dark gray, few fine to coarse subrounded to subangular gravel, mostly fine to coarse sand, some fines with low plasticity, moist, (20,50,30,0)*, **	SM
			5	Grades to grayish brown, moist to wet	
			10		
			15	Sandy Silt with little Gravel and trace Clay, dark gray, some fine to medium sand, mostly fines with low to medium plasticity, (5,25,70,0), saturated	ML
			20	Boring terminated at 20 feet.	
				Groundwater encountered at approximately 8 feet during drilling.	
				Boring converted to a air sparge point on 10/3/95	
				* Percentage of soil types shown in this order: (G,S,M,C), gravel, sand, silt, and clay (Percentages are approximate, based on field observations)	
				** Soil descriptions and groundwater level based on drill cuttings observations	
			25		

Well Construction Details



SECOR

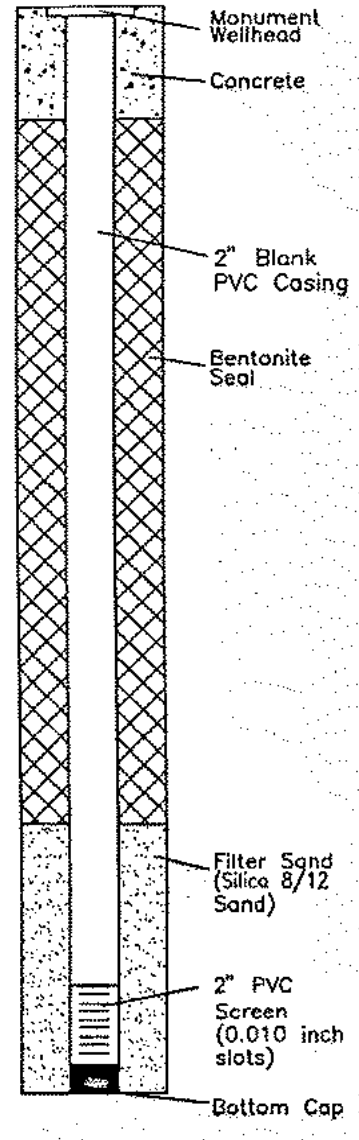
BORING LOG

BORING AS-4
PAGE 1 OF 1

PROJECT EXXON #7-2864 LOCATION 14014 BEL-RED ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION - CASING TOP ELEVATION -
START 1105 10/3/95 FINISH 1119 10/3/95
SAMPLER D.M. PHELAN MONITORING DEVICE MICROTIP PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC: LIMITED ACCESS CME-55 RIG
COMMENTS NO SOIL SAMPLES COLLECTED

PENETRATION RESULTS BLOWS 6"/6"/6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	10" thick asphalt	
				Silty Sand with Gravel, brownish gray, few fine to coarse subrounded to subangular gravel, mostly fine to coarse sand, some fines with low to medium plasticity, (10,60,30,0)*, moist, **	SM
			5		
			10	Grades to occasional Gravel, (approximately 5%), moist to wet	
			15	Sandy Silt with trace Clay, dark grayish brown, some fine sand, mostly fines with low to medium plasticity, (0,30,70,0), wet to saturated	ML
			20	Boring terminated at 20 feet.	
				Boring converted to a air sparge point on 10/3/95	
				* Percentage of soil types shown in this order: (0,50,45,5), gravel, sand, silt, and clay (Percentages are approximate, based on field observations)	
				** Soil descriptions and groundwater level based on drill cuttings observations	
			25		

Well Construction Details

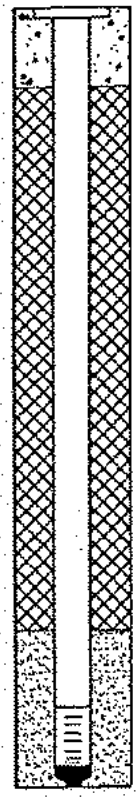


SECOR
International Incorporated

FACILITY EXXON #7-2864 JOB # 00091-319-01 BORING/WELL AS-5
LOCATION 14014 BEL-RED ROAD, BELLEVUE, WASHINGTON SURFACE ELEVATION -
START 3/13/96 0815 FINISH 3/13/96 0850 CASING TOP ELEVATION -
LOGGED BY A. STOLLAR MONITORING DEVICE HnU PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 55; 8.5' O.D. HSA
COMMENTS SAMPLED WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER DRIVEN BY A 140 POUND HAMMER WITH A 30" STROKE

Penetration Results: Blows 6"/6"/6"	Sample Depth Interval, feet	PID Reading	Sheen	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
				0	Asphalt	
					Sandy Gravel, dark gray, (5Y 4/1), mostly fine grained rounded gravel, some medium to coarse grained sand, trace silt, moist	GP
					Silty Sand with Gravel, very dark gray, (5Y 3/1), little fine grained gravel, mostly fine to medium grained sand, some silt, wet, hydrocarbon-like odor	SM
				10		
				15	No odor	
					Fine Sand, no Gravel	
60 for 6"		17	NT	20	Boring terminated at 20.0 feet, sampler advanced to 20.5 feet. Groundwater encountered at approximately 10 feet during drilling. Boring converted to an air sparge point on 3/13/96.	
				25		

Well Construction Schematic



Field Screen/Lithologic Description Sample
Preserved Sample
No Recovery
Sample Submitted for Laboratory Analysis
Groundwater Level at Time of Drilling
Static Groundwater Level
SD Sheen Detected
NS No Sheen Detected
NT Not Tested
(2.5Y 4/2) Munsell (1990) Soil Color Charts
Gradational Contact
Contact Located Approximately
Contact
Concrete
Bentonite
2/12 Lapis Lustre Sand
2" PVC Blank Casing
2" PVC Screen Casing (0.010 slots)
End Cap

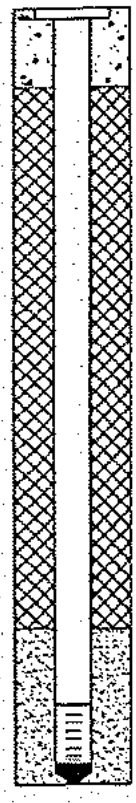
DWG: EX31901L

SECOR
International Incorporated

FACILITY EXXON #7-2864 JOB # 00091-319-01 BORING/WELL AS-6
LOCATION 14014 BEL-RED ROAD, BELLEVUE, WASHINGTON SURFACE ELEVATION -
START 3/13/96 0900 FINISH 3/13/96 0930 CASING TOP ELEVATION -
LOGGED BY A. STOLLAR MONITORING DEVICE HnU PID
SUBCONTRACTOR AND EQUIPMENT CASCADE DRILLING INC.; CME 55; 8.5' O.D. HSA
COMMENTS SAMPLED WITH A 2.5" I.D. X 1.5' LONG SPLIT SPOON SAMPLER DRIVEN BY A 140 POUND HAMMER WITH A 30" STROKE

Penetration Results Blows 6"/6"/6"	Sample Depth Interval, feet	PID Reading	Sheen	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification	Depth Below Surface, feet
				5			5
				0	Asphalt		0
					Sandy Gravel, dark gray, (5Y 4/1), mostly fine grained rounded gravel, some fine to coarse grained sand, trace silt, moist	GP	
				5			5
					Ssandy Silt with Gravel, very dark gray, (5Y 3/1), little fine grained gravel, some fine to medium grained sand, mostly silt, wet, hydrocarbon-like odor	ML	
				10			10
				15			15
					No gravel		
22/60 for 5"		19	NT	20	Boring terminated at 20.0 feet, sampler advanced to 21.0 feet. Groundwater encountered at approximately 10 feet during drilling. Boring converted to an air sparge point on 3/13/96.		20
				25			25

Well Construction Schematic



Field Screen/Lithologic Description Sample
Preserved Sample
No Recovery
* Sample Submitted for Laboratory Analysis
Groundwater Level at Time of Drilling
Static Groundwater Level
SD Sheen Detected
NS No Sheen Detected
NT Not Tested
(2.5Y 4/2) Munsell (1990) Soil Color Charts
Gradational Contact
Contact Located Approximately
Contact
Concrete
Bentonite
2/12 Lapis Lustre Sand
2" PVC Blank Casing
2" PVC Screen Casing (0.010 slots)
End Cap

DWG: EX319021

BORING LOG B1 / MW14

(Page 1 of 1)

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.H.G.
Signature:	:

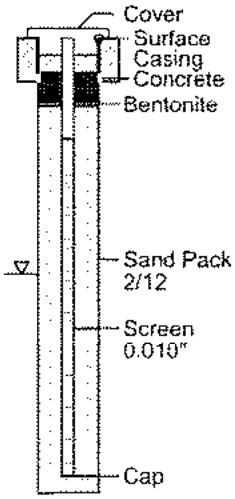
Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Hollow Stem Auger
Sampling Method:	: 300 lbs Split spoon
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 13.5'
First GW Depth:	: 7'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling 06/18/07

Well: B1 / MW14
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 8 feet by Cascade.
5	N/A	40			SP	SAND: medium- to coarse-grained, medium to dark brown, damp to moist, poorly graded, with gravel, trace silt (sampled with hand auger) (5.0').
10	50/6	80				SAND: medium- to coarse-grained, dark brown to grey, moist to wet, poorly graded, trace gravel, trace pebbles (10.0').
	60/6	60				SAND: medium- to coarse-grained, grey, moist to wet, poorly graded, trace gravel (13.0').
						Boring completed to 13.5 feet on 6/18/07.
15						
20						
25						
30						
35						
40						



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BORING LOG B2

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.HG.
Signature:	:

Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Hollow Stem Auger
Sampling Method:	: 300 lbs Split spoon
Borehole Diameter:	: 8"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 20.5'
First GW Depth:	: 5'

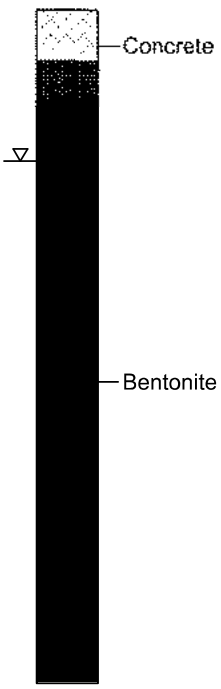
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling 06/18/07

Well: B2
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 8 feet by Cascade.
5	N/A	100				SAND: fine- to coarse-grained, dark brown to light grey, moist to wet, well graded, with silt, trace gravel (sampled with hand auger) (5.0').
10	7 13 15	820			SW	SAND: fine- to coarse-grained, dark brown to grey, wet to saturated, well graded, trace gravel, trace silt (10.0').
15	55/6	440				SAND: very fine- to coarse-grained, grey, damp to moist, well graded, with organics, with silt, trace clay (15.0').
20	65/6	180			ML	SILT: very fine-grained, dark brown, dry to damp, low plasticity (20.0').

Boring completed to 20.5 feet on 6/18/07.



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BORING LOG B3

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.HG.
Signature:	:

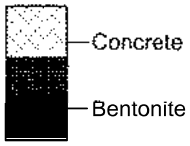
Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife/Hand Auger
Sampling Method:	: Hand Auger
Borehole Diameter:	: 8"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 4.5'
First GW Depth:	: N/A

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B3
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 4.5 feet by Cascade.
	N/A	100			SW	SAND: very fine- to coarse-grained, medium brown, dry, well graded, with organics, with gravel, trace silt (sampled with hand auger) (4.0').
5						Boring completed to 4.5 feet on 6/18/07.
10						
15						
20						
25						
30						
35						
40						



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BORING LOG B4

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.HG.
Signature:	:

Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife/Hand Auger
Sampling Method:	: Hand Auger
Borehole Diameter:	: 8"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 4.5'
First GW Depth:	: N/A

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B4
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 4.5 feet by Cascade.
	N/A	160			SP	SAND: medium- to coarse-grained, medium brown, moist to wet, poorly graded, trace gravel, trace pebbles (sampled with hand auger) (4.0').
5						Boring completed to 4.5 feet on 6/18/07.
10						
15						
20						
25						
30						
35						
40						

Concrete
Bentonite

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BORING LOG B5

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.HG.
Signature:	:

Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife/Hand Auger
Sampling Method:	: Hand Auger
Borehole Diameter:	: 8"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 4.5'
First GW Depth:	: N/A

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B5
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 4.5 feet by Cascade.
	N/A	180			SP	SAND: medium- to coarse-grained, medium brown, damp, poorly graded, with silt, trace gravel, trace pebbles (sampled with hand auger) (4.0').
5						Boring completed to 4.5 feet on 6/18/07.
10						
15						
20						
25						
30						
35						
40						

Concrete
Bentonite

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BORING LOG B6

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.HG.
Signature:	:

Date Drilled:	: 06/18/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife/Hand Auger
Sampling Method:	: Hand Auger
Borehole Diameter:	: 8"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 5'
First GW Depth:	: N/A

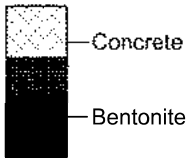
Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- After Completion
- During Drilling

Well: B6
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 4.5 feet by Cascade.
5	N/A	200			SP	SAND: medium- to coarse-grained, dark brown to grey, moist to wet, poorly graded, with gravel, with pebbles, trace silt (sampled with hand auger) (4.5').

Boring completed to 5.0 feet on 6/18/07.



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BORING LOG B7 / MW15

(Page 1 of 1)

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.:	: 31103
Site:	: Former Exxon Station 7-2864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: John K. Meyer, R.G., L.H.G.
Signature:	:

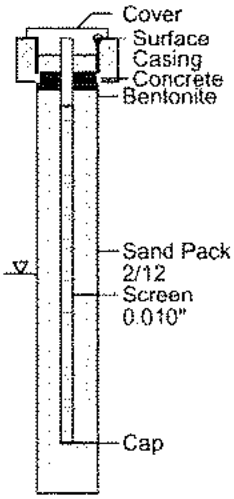
Date Drilled:	: 06/19/07
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife/Hand Auger
Sampling Method:	: Hand Auger
Borehole Diameter:	: 8"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 13.5'
First GW Depth:	: 7'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling 06/19/07

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Cleared with air knife to 8 feet by Cascade.
5	N/A	1.5			SP	SAND: medium- to coarse-grained, medium brown to grey, moist to wet, poorly graded, trace gravel (sampled with hand auger) (5.0').
10	N/A	5.4			SP	SAND: medium- to coarse-grained, dark brown to grey, moist to wet, poorly graded, trace gravel, trace pebbles (sampled with hand auger) (11.0').
	N/A	4.8			SW	SAND: fine- to coarse-grained, grey, saturated, well graded, with gravel, trace pebbles (sampled with hand auger) (13.5').
15						Boring completed to 13.5 feet on 6/19/07.
20						
25						
30						
35						
40						

Well: B7 / MW15
Elev.: NA



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B22

(Page 1 of 1)

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 5'2"
First GW Depth:	: NA

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Ronstad, L.G. 386
Signature:	:

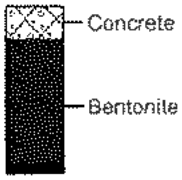
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B22
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 6" of concrete on surface.
5	N/A	0.0			GP	Sandy GRAVEL, with organics (roots): medium-grained, light brown, damp to moist, subangular gravel, poorly graded.

Bottom of Borehole @ 5'2"; 13:00; 01/21/08.
Air Knife/Vacuum: 0' to 5'2".



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B23

(Page 1 of 1)

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 5'3"
First GW Depth:	: NA

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Romstad, L.G. 386
Signature:	:

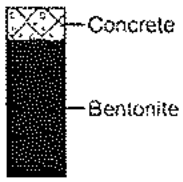
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B23
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 6" of concrete on surface.
5	N/A	0.0			SP	SAND, with gravel, with organics (roots): medium-grained, gray, moist, poorly graded.

Bottom of Borehole @ 5'3"; 12:35; 01/21/08.
Air Knife/Vacuum: 0' to 5'3".



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B24

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Romstad, L.G. 386
Signature:	:

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 5'
First GW Depth:	: NA

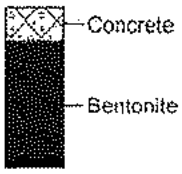
Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- After Completion
- During Drilling

Well: B24
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 6" of concrete on surface.
5	N/A	0.0			GP	Sandy GRAVEL, with organics (roots): medium-grained gravel, medium-grained sand, light brown, damp to moist, subangular gravel, poorly graded.

Bottom of Borehole @ 5'; 12:20; 01/21/08.
Air Knife/Vacuum: 0' to 5'.



10 15 20 25 30 35 40

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B25

(Page 1 of 1)

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 4'10"
First GW Depth:	: NA

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Romstad, L.G. 386
Signature:	:

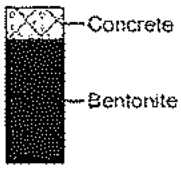
Sample Condition
- No Recovery
- Sampled Interval
- Described Sample
- Preserved Sample

Water Levels
- After Completion
- During Drilling

Well: B25
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 4" of asphalt on surface.
5	N/A	260			SM	Silty SAND, with gravel: fine-grained, gray, moist to wet, poorly graded, subangular.

Bottom of Borehole @ 4'10"; 14:00; 01/21/08.
Air Knife/Vacuum: 0' to 4'10".



10 15 20 25 30 35 40

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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B26

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Romstad, L.G. 386
Signature:	:

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 6'
First GW Depth:	: NA

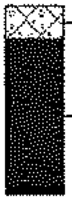
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B26
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 4" of asphalt on surface.
5	N/A	12.6			SM	Silty SAND, with gravel, with clay: fine- to very fine-grained, gray, wet, poorly graded, gravel is subangular.

Bottom of Borehole @ 6'; 15:10; 01/21/08.
Air Knife/Vacuum: 0' to 6'.



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ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B27

(Page 1 of 1)

Date Drilled:	: 01/21/08
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Knife
Sampling Method:	: Hand Auger
Borehole Diameter:	: 3"
Casing Diameter:	:
Location N-S	:
Location E-W	:
Total Depth:	: 7'10"
First GW Depth:	: 7'

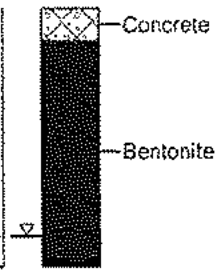
Project No :	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Ann Tillia
Reviewed By:	: Keith A. Romstad, LG, 386
Signature:	

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B27
Elev.: NA

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 4" of asphalt on surface.
5						
	N/A	0.0			CL	Silty CLAY: gray, wet, non-plasticity.
						Bottom of Borehole @ 7'10"; 16:25; 01/21/08. Air Knife/Vacuum: 0' to 7'10".
10						
15						
20						
25						
30						
35						
40						



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ERI ENVIRONMENTAL RESOLUTIONS, INC.

BORING LOG B28 / MW16

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: Keith A. Romstad, L.G. 386
Signature:	:

Date Drilled:	: 05/29/08
Drilling Co.:	: Cascade Drilling, Inc
Drilling Method:	: Hollow-Stem Auger
Sampling Method:	: 300-lb Split Spoon
Borehole Diameter:	: 6.25"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 15.5'
First GW Depth:	: 6'

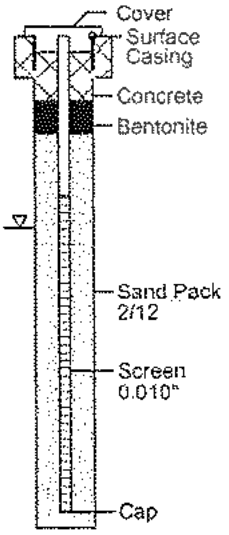
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B28 / MW16
Elev.: 99.68'

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						Approximately 4" of Asphalt on surface.
5	N/A	191.0			SM	Silty SAND, with gravel, with organics (roots), trace clay, trace pebbles: fine- to medium-grained, dark brown, moist to wet, poorly graded (sampled with hand auger).
15	50/4	0.0			ML	SILT, trace sand: very fine-grained, dark brown to gray, dry to damp, low plasticity.

Bottom of Borehole @ 15.5'; 11:25; 05/29/08.
Air Knife/Vacuum: 0' to 8'.
Hollow-Stem Auger: 8' to 15.5'.



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BORING LOG B29 / SVE1

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: Jacob M. Leitz, L.G. 2741
Signature:	:

Date Drilled:	: 05/18/09
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Vac; Hollow-Stem Auger
Sampling Method:	: Hand Auger; Split Spoon
Borehole Diameter:	: 6.25"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 16'
First GW Depth:	: 7.5'

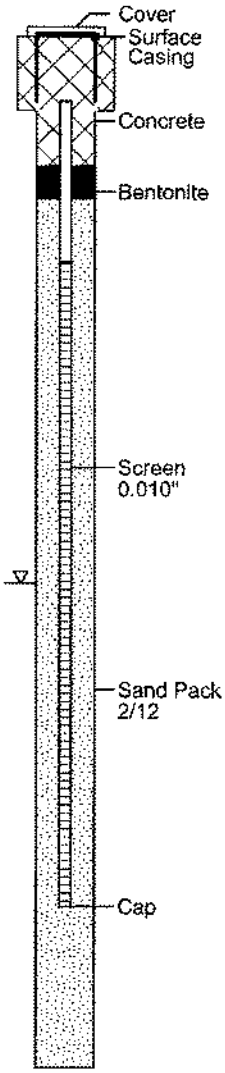
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						ASPHALT: ~0.6' on surface.
					SP -SM	SAND WITH SILT AND CLAY: fine- to medium-grained, dark brown, damp, ~10% silt, ~5-10% clay (low plasticity); trace gravel, trace organics (roots).
	N/A	0.0				
5	N/A	762.0			SP -SM	GRAVELLY SAND WITH SILT: medium- to coarse-grained, dark brown, moist to wet, ~20% gravel, ~5-10% silt; trace organics.
10	50/5	0.0			GW	SANDY GRAVEL: fine- to coarse-grained, light to medium gray, saturated, ~30% coarse sand.
15	50/6	0.0			SP	SAND: medium- to coarse-grained, medium gray with light brown to orange coloration, saturated; trace gravel, trace fines. @16': fine- to medium-grained.
20						

Air Knife/Vacuum: 0' to 8'.
Hollow-Stem Auger: 8' to 16'.
Well Tag: BBL 912
Bottom of Borehole @ 16'; 9:35; 05/18/09.

Well: B29 / SVE1
Elev.: 100.16'



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BORING LOG B30 / SVE2

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: Jacob M. Letts, L.G. #741
Signature:	:

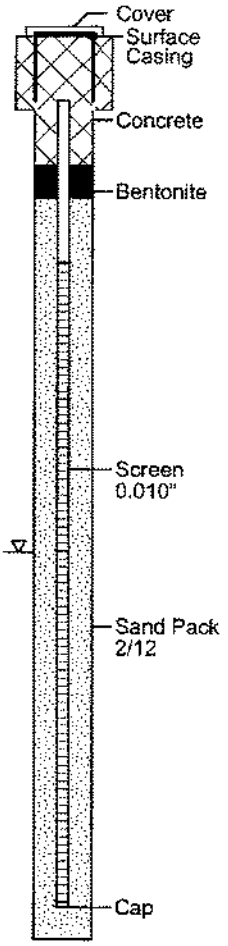
Date Drilled:	: 05/18/09
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Vac; Hollow-Stem Auger
Sampling Method:	: Hand Auger; Split Spoon
Borehole Diameter:	: 6.25"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 14'
First GW Depth:	: 7'

Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						ASPHALT: ~0.7' on surface.
	N/A	15.5			SP	GRAVELLY SAND WITH SILT: coarse- to very coarse-grained, light to medium gray with orange coloration, moist, ~25% gravel, ~5% silt; trace organics.
5	N/A	0.0			Pt	PEAT WITH SILT: very dark brown with dark red coloration, moist, ~15% silt; trace very fine-grained sand. @7': water.
10	50/3	0.0			GW	SANDY GRAVEL: fine- to coarse-grained, dark greenish gray, saturated, ~30-40% coarse sand; trace silt.
	50/6	0.0			SP	SAND WITH GRAVEL: medium- to coarse-grained, medium to dark gray, saturated, 10-15% gravel; trace silt.
15						Air Knife/Vacuum: 0' to 8'. Hollow-Stem Auger: 8' to 14'. Well Tag: BBL 913 Bottom of Borehole @ 14'; 10:30; 05/18/09.
20						

Well: B30 / SVE2
Elev.: 99.33'



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BORING LOG B31 / SVE3

(Page 1 of 1)

Project No.:	: 31103
Site:	: Former Exxon Station 72864, Bellevue, WA
Logged By:	: Benjamin T. Kortlever
Reviewed By:	: Jacob M. Letts, L.G. 2741
Signature:	:

Date Drilled:	: 05/18/09
Drilling Co.:	: Cascade Drilling, Inc.
Drilling Method:	: Air Vac; Hollow-Stem Auger
Sampling Method:	: Hand Auger; Split Spoon
Borehole Diameter:	: 6.25"
Casing Diameter:	: 2"
Location N-S	:
Location E-W	:
Total Depth:	: 14'
First GW Depth:	: 7.5'

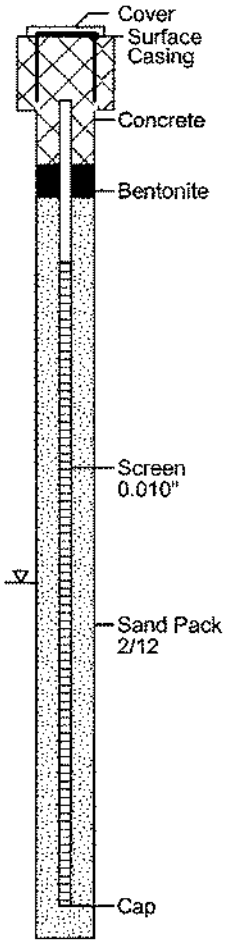
Sample Condition: No Recovery; Sampled Interval; Described Sample; Preserved Sample

Water Levels: After Completion; During Drilling

Well: B31 / SVE3
Elev.: 99.67'

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	DESCRIPTION
0						ASPHALT: ~0.7' on surface.
	N/A	0.0			GW	SANDY GRAVEL: fine- to coarse-grained, medium brown, damp, ~40% medium- to coarse-grained sand; trace silt.
	N/A	0.0			SP	SAND WITH GRAVEL AND SILT: medium- to coarse-grained, medium brown with orange coloration, damp, ~10-15% gravel, ~5% silt.
5	N/A	15.4			Pt	PEAT: very dark brown, organics (wood, roots); trace very fine-grained sand with ~15% silt. @7.5': water.
10	50/6	0.0			SP	SAND WITH GRAVEL: very fine- to coarse-grained, dark gray to dark brown, saturated, 10-15% gravel (rounded to subrounded); trace organics, trace silt.
	50/6				ML	SILT WITH SAND: very dark brown to dark gray, dry to damp, low plasticity, ~10-15% very fine-grained sand with dark reddish purple streaks.
15						
20						

Air Knife/Vacuum: 0' to 8'.
Hollow-Stem Auger: 8' to 14'.
Well Tag: BBL 914
Bottom of Borehole @ 14'; 12:00; 05/18/09.



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SEACOR

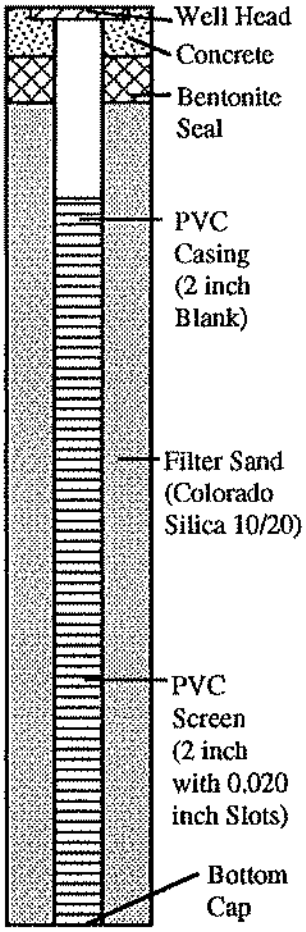
BORING LOG

BORING: MW-1
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 98.94
START 10-16-91; 1445 FINISH 10-16-91; 1540
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Crushed Aggregate Base	
1-1-1		40*	5	Gray SAND moist to wet, loose, medium-grained, petroleum-like odor	SP
1-3-6		15	10	Gray Gravelly SAND saturated, loose, medium-grained, petroleum-like odor	SP
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 5.5 feet during drilling. Boring converted to a groundwater monitoring well on 10-16-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

*Sample submitted for chemical analysis.

SEACOR

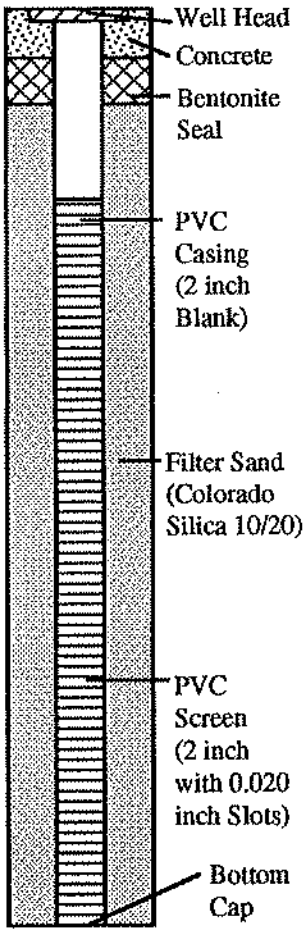
BORING LOG

BORING: MW-2
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD, BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 99.39
START 10-17-91; 0845 FINISH 10-17-91; 1000
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Crushed Aggregate Base	
				Brown Gravelly SAND moist, medium dense, fine- to coarse-grained, with silt and cobbles	SP
					SP
5-7-12		350*	5	Gray SAND moist, loose, coarse-grained, petroleum-like odor	
				Brown Gravelly SAND wet to saturated, loose, fine- to coarse-grained, with silt, petroleum-like odor	SP
			10		
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 5.5 feet during drilling. Boring converted to a groundwater monitoring well on 10-17-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

SEACOR

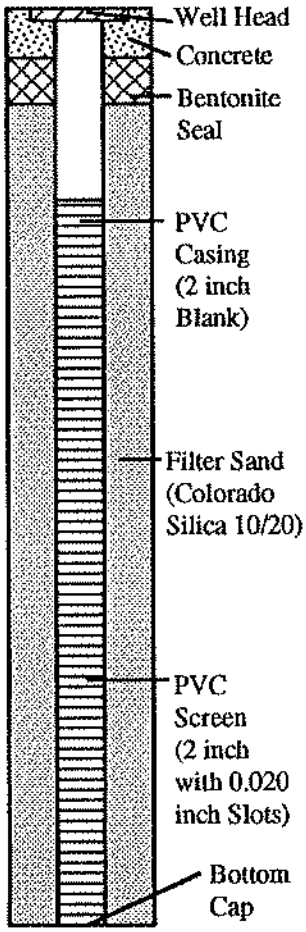
BORING LOG

BORING: MW-3
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION ——— CASING TOP ELEVATION** 98.91
START 10-17-91; 1200 FINISH 10-17-91; 1245
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Dark Brown Gravelly SAND moist, loose, with cobbles	SP
				Gray Clayey SAND moist, medium dense, fine-grained, with cobbles	SC
2-3-7		15*	5	Gray Silty SAND wet, loose, fine-grained	
			10	medium dense	SM
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 6 feet during drilling. Boring converted to a groundwater monitoring well on 10-17-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

00091-018-01

SEACOR

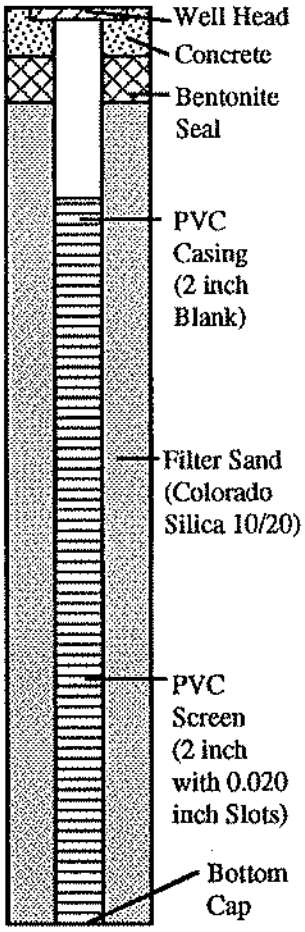
BORING LOG

BORING: MW-4
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION ——— CASING TOP ELEVATION** 100.20
START 10-17-91; 1500 FINISH 10-17-91; 1600
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Gray Clayey SILT moist, hard, petroleum-like odor	ML
				Brown Gravelly SAND moist, medium dense, fine- to coarse-grained	SP
24-24-24		220*	5		
				Gray Gravelly SAND moist, medium dense, coarse-grained, petroleum-like odor	SP
12-13		300*			
				Gray SAND wet to saturated, medium dense, coarse-grained, petroleum-like odor	SP
			10		
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 6.5 feet during drilling. Boring converted to a groundwater monitoring well on 10-17-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

00091-018-01

SEACOR

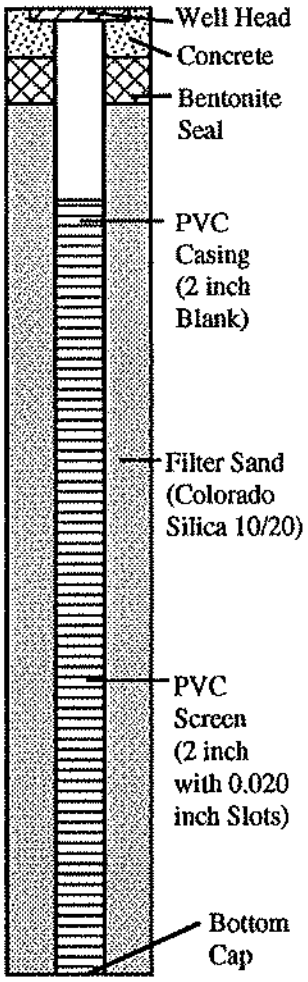
BORING LOG

BORING: MW-5
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION ——— CASING TOP ELEVATION** 100.09
START 10-18-91; 0845 FINISH 10-18-91; 1000
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Brown Gravelly SAND moist, loose, medium- to coarse-grained, with cobbles	
			5	dark brown, moist to wet, with silt	SP
7-8-2		10*			
				saturated	
24-30		8	10		
				Gray SAND saturated, medium dense, coarse-grained	
			15		SP
			20	Boring terminated at 20 feet. Groundwater encountered at approximately 9 feet during drilling. Boring converted to a groundwater monitoring well on 10-18-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

SEACOR

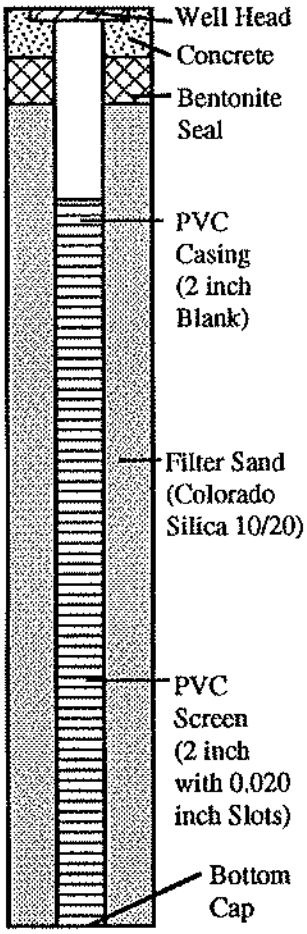
BORING LOG

BORING: MW-6
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD, BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 98.86
START 10-18-91; 1200 FINISH 10-18-91; 1230
LOGGED BY C. VAN DIJK MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphaltic Concrete	
				Brown Gravelly SAND moist, loose, medium- to coarse-grained, with silt and cobbles	SP
				Brown Silty SAND moist, loose, fine- to coarse-grained	SM
4-6-10		12*	5	Gray Sandy SILT wet, medium stiff, very fine to medium-grained sand	ML
			10	sand content increasing with depth, grading to a silty sand	SM
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 6 feet during drilling. Boring converted to a groundwater monitoring well on 10-18-91.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

SEACOR

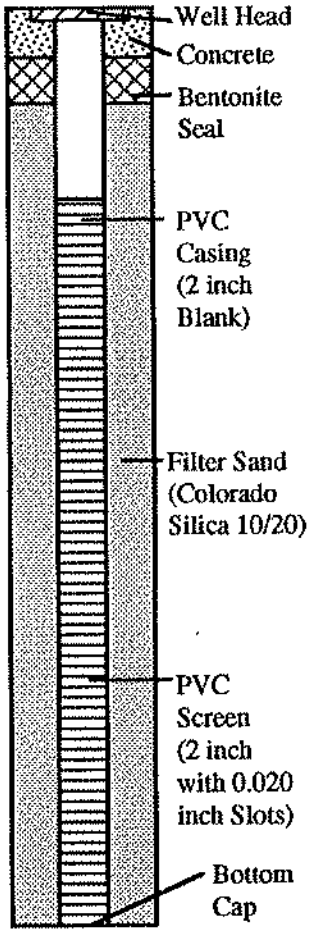
BORING LOG

BORING: MW-7
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864
LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION ——
CASING TOP ELEVATION** 98.52
START 1-17-92; 1000
FINISH 1-17-92; 1140
LOGGED BY J. GIEBER
MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphalt	
				Crushed Aggregate Base	
				Peagravel	
2-2-2		0*	5		
				Gray Gravelly SAND saturated, loose, coarse-grained	SP
			10		
			15	Gray Silty Gravelly SAND wet, dense, fine- to medium-grained	SP
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 5.5 feet during drilling. Boring converted to a groundwater monitoring well on 1-17-92.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

SEACOR

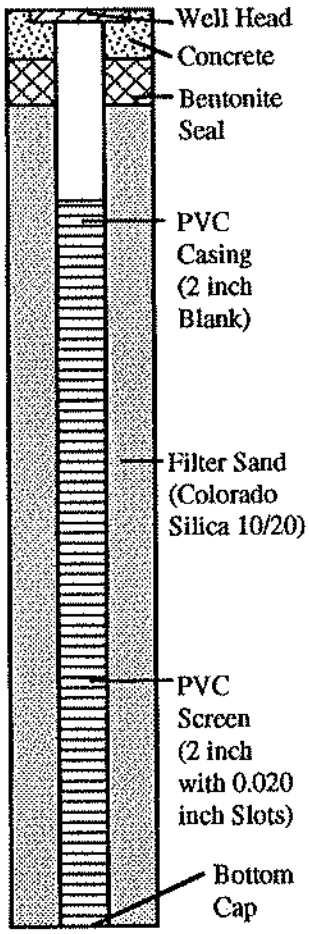
BORING LOG

BORING: MW-8
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD, BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 97.96
START 1-17-92; 1240 FINISH 1-17-92; 1430
LOGGED BY J. GIEBER MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results: Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphalt	
				Crushed Aggregate Base	
				Peagravel	
4-1-1			5	saturated	
				No Recovery	
1-2-1		0			
				Gray Gravelly SAND saturated, loose, medium- to coarse-grained	SP
29-40-46		0	10	Gray Silty SAND moist, very dense, very fine-grained	SM
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 5.5 feet during drilling. Boring converted to a groundwater monitoring well on 1-17-92.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

00091-018-01

SEACOR

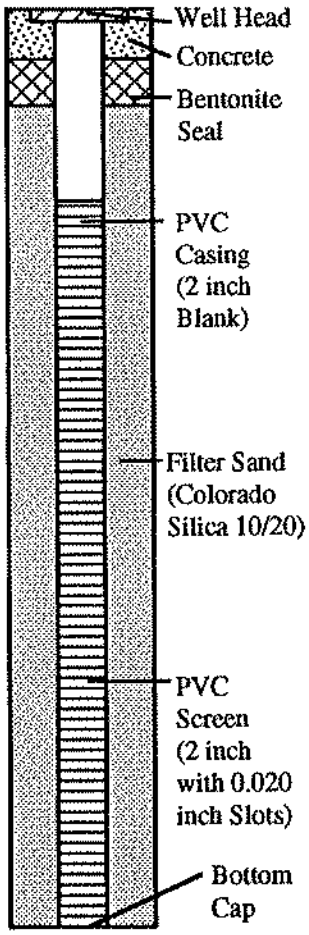
BORING LOG

BORING: MW-9
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 100.33
START 1-17-92; 1530 FINISH 1-17-92; 1720
LOGGED BY J. GIEBER MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results: Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphalt Crushed Aggregate Base	
				Brown Gravelly SAND moist, medium dense, medium- to coarse-grained	SP
29-18-19		0*	5		
				wet	
41-37-50(6")		0		Gray SAND saturated, dense, fine- to medium-grained	SP
			10		
			15	Dark Brown Silty SAND moist, dense, very fine-grained	SM
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 7 feet during drilling. Boring converted to a groundwater monitoring well on 1-17-92.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

00091-018-01

SEACOR

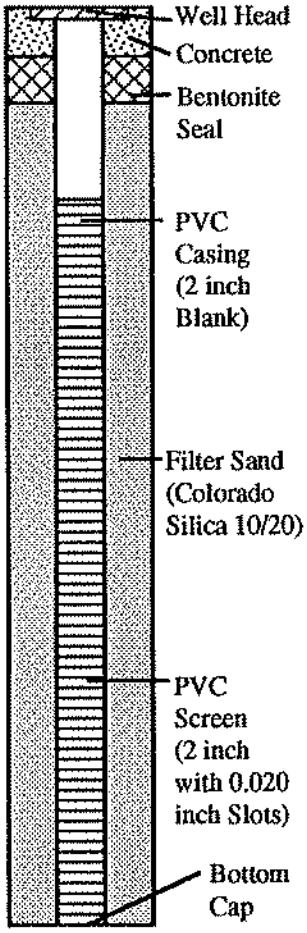
BORING LOG

BORING: MW-10
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 98.66
START 1-18-92; 0945 FINISH 1-18-92; 1110
LOGGED BY J. GIEBER MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphalt	
				Gray Gravelly SAND moist, loose, medium- to coarse-grained	SP
3-5-6		0*	5		
				Brown SAND moist to wet, loose, medium-grained, local gravel	SP
4-14-22		0			
				Gray Gravelly SAND saturated, medium dense, medium- to coarse-grained	SP
			10		
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 6.5 feet during drilling. Boring converted to a groundwater monitoring well on 1-18-92.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

00091-018-01

SEACOR

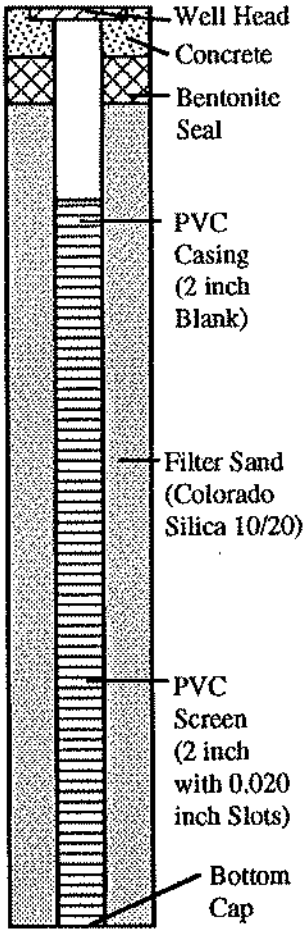
BORING LOG

BORING: MW-11
PAGE 1 of 1

PROJECT EXXON SERVICE STATION NO. 7-2864 LOCATION 14014 BELLEVUE REDMOND ROAD BELLEVUE, WASHINGTON
SURFACE ELEVATION —— CASING TOP ELEVATION** 98.14
START 1-18-92; 1220 FINISH 1-18-92; 1345
LOGGED BY J. GIEBER MONITORING DEVICE PHOTOIONIZATION DETECTOR
SUBCONTRACTOR AND EQUIPMENT LAYNE ENVIRONMENTAL; CME-75; 8" HSA
COMMENTS SOIL SAMPLES COLLECTED USING A 3-INCH O.D. SPLIT SPOON SAMPLER LINED WITH BRASS SLEEVES

Penetration Results Blows 6"-6"-6"	Sample Depth Interval, feet	PID Reading (ppm)	Depth Below Surface, feet	Lithologic Description	Unified Soil Classification
			0	Asphalt	
				Brown Gravelly SAND moist, loose, medium-grained	SP
7-8-13		0*	5	Brown Silty SAND moist to wet, loose, very fine-grained, iron oxide staining gray, saturated at approximately 5.5'	SM
			10		
			15		
			20	Boring terminated at 19 feet. Groundwater encountered at approximately 5.5 feet during drilling. Boring converted to a groundwater monitoring well on 1-18-92.	
			25		

Boring Abandonment/ Well Construction Details



** Casing Top Elevation relative to SEACOR TBM with a designated elevation of 100 feet above MSL.

* Sample submitted for chemical analysis.

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1103 Boring: B12/MW12 Plate: MW12

Site: EXXON 7-2864 14014 Bel-Red Rd. Date: 10/31/2001

Drill Contractor: Holt Drilling AP5

Sample Method: HSA B-59, 1.5" dia Geologist: John Meyer/Antonio Luna

Drill Rig: B-59 Bore Hole Diameter: 8" Signature:

Location: Registration:

Logged by: John Meyer/Antonio Luna

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						Hole cleared to 8' by air knife.	
	Grab	0			SW	Damp, brownish-gray, mottled, gravel material with fine- to very coarse-grained sand with silt and cobbles up to 6" (Fill). Sample B12-3	
5							
10							
	7 21 42	0			ML	Damp, medium brown, silty clay to clayey silt with some very fine- to fine-grained sand stringers.	
15							
	9 50/5	0 ▼			GW	Saturated, gray to black, fine- to very coarse-grained sand with cobbles and gravel. No sample.	
20						Total depth = 20 feet	
25							
30							
35							
40							

Casing Diameter: 2", Slot Size: 020, Sand Size: 10/20, Grout: Bentonite chips

FN: 3L103B012

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 1103 Boring: B13/MW13 Plate: MW13

Site: Exxon 7-2864, 14014 Bel-Red Rd. Date: 10/31/2001

Drill Contractor: Holt Drilling AP5

Sample Method: HSA B-59, 1.5" dia Geologist: John Meyer/Antonio Luna

Drill Rig: B-59 Bore Hole Diameter: 8" Signature:

Location: Registration:

Logged by: John Meyer/Antonio Luna

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION
						Hole cleared to 6' by air knife.
	Grab	0			SW	Damp, brownish orange and gray gravel with very fine- to very coarse-grained sand with silt and cobbles up to 6" (fill). Sample B13-3
5						
	8 17 20	0			GW	Saturated, gray, fine- to medium-grained sand with coarse gravel, coarsens upward.
10						
	9 18 27	4			ML	Dry to damp, brown clayey silt with organics and stringers of very fine- to fine-grained sand.
15						
	19 30 55	0			SM	Damp to wet, gray, very fine- to fine-grained silty sand with a trace of clay, fines upward.
20						Total depth = 20 feet
25						
30						
35						
40						

WELL DESIGN

Casing Diameter: 2", Slot Size: 020, Sand Size: 10/20, Grout: Bentonite chips

FN: S1105HD1S

APPENDIX B
WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter) CI2000266163-001

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESQG

Manifest Document No.: 015367054FLE

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Exxon Station 72864
14104 Northeast Bellevue Redmond Road
Bellevue WA 98007

4. Generator's Phone ((961) 801-3681

Site Address: SAME

5. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc.

6. US EPA ID Number: MAD039322250

A. State Transporter's ID

B. Transporter 1 Phone: (781) 792-5000

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Clean Harbors Grassy Mountain LLC
3 Miles East 7 Miles North of Knolls
Grantsville, UT 84029

10. US EPA ID Number: UTD991301748

E. State Facility's ID

F. Facility's Phone: (435) 884-8900

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT REGULATED MATERIAL, SOIL CUTTINGS	001	DM	00600	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a.CH1948980 1X55

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE #: (800) 483-3718
GENERATOR: Former Exxon Station 72864

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name | Signature | Date: Month 11 Day 15 Year 20

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Brian Marshall | Signature | Date: Month 11 Day 15 Year 20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name | Signature | Date: Month Day Year

NON-HAZARDOUS WASTE

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NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter) CL2000266163.001

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESOG

Manifest Document No.: 013867053FLE

2. Page 1 of 1

3. Generator's Name and Mailing Address
Former Exxon Station 72864
14104 Northeast Bellevue-Redmond Road
Bellevue WA 98007

Site Address: SAME

4. Generator's Phone ((951) 801-3681

5. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc.

6. US EPA ID Number: MAD039322250

A. State Transporter's ID

B. Transporter 1 Phone: (781) 792-5000

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Emerald Services, Inc
1500 Airport Way South
Seattle, WA 98134

10. US EPA ID Number: WAD058367152

E. State Facility's ID

F. Facility's Phone: (206) 832-3000

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. MATERIAL NOT REGULATED BY DOT	002	DM	00950	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a.CH1859000 2X55

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE #: (800) 483-3718
GENERATOR: Former Exxon Station 72864

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date Month	Day	Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year
[illegible]	[illegible]	01	15	20

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter) CL2000266162.001

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESOG

Manifest Document No.: 5247052[illegible]

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Former Exxon Station 72864
14104 Northeast Bellevue-Redmond Road
Bellevue WA 98007

Site Address: SAME

4. Generator's Phone: (951) 801-3681

5. Transporter 1 Company Name: Clean Harbors Environmental Services, Inc.

6. US EPA ID Number: MAD039322250

A. State Transporter's ID:

B. Transporter 1 Phone: (781) 792-5000

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address:
Clean Harbors Aragonite LLC
11600 North Aptus Road
Grantsville, UT 84029

10. US EPA ID Number: UTD981552177

E. State Facility's ID:

F. Facility's Phone: (435) 884-8100

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT REGULATED MATERIAL	001	DF	00010	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above: 11aCH1953164 1X55

H. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information:
EMERGENCY PHONE #: (800) 483-3719
GENERATOR: Former Exxon Station 72864

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: | Signature: | Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jochen Murphy | Signature: [signature] | Date: Month 01 Day 15 Year 22

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: | Signature: | Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE

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APPENDIX C
LABORATORY ANALYTICAL DATA REPORTS

ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-7674-1
Client Project/Site: Former ExxonMobil 72864

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
9/18/2019 4:38:07 PM

Cecile de Guia, Project Manager I
(714)895-5494
ceciledeguia@eurofinsus.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary 6
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Chain of Custody 30
Receipt Checklists 31

Job ID: 570-7674-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-7674-1

Comments
No additional comments.

Receipt
Kleinfelder submitted directly the samples to TA-Tacoma lab.

Subcontract Work
Method EPA 8260B, NWTPH-Gx, NWTPH/VPH & EPH, % Moisture: This method was subcontracted to Eurofins TestAmerica, Seattle. The subcontract laboratory certification is different from that of the facility issuing the final report.

Accreditation/Certification Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-7674-1

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State Program	AZ0781	03-13-20
California	SCAQMD LAP	N/A	11-30-19
California	State Program	2944	09-30-19
Guam	State Program	19-004R	10-31-19
Hawaii	State Program	N/A	01-29-20
Oregon	NELAP Primary AB	CA300001	01-20-20
Washington	State Program	C916	10-11-19

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
Alaska (UST)	State Program	17-024	01-19-20
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	DoD	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
California	State Program	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Montana (UST)	State Program	N/A	04-30-20
Oregon	NELAP	WA100007	11-05-19
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P330-14-00126	02-10-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20
Washington	State Program	C553	02-17-20

Method Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-7674-1

Method	Method Description	Protocol	Laboratory
Subcontract	EPA 8260B, NWTPH-Gx, NWTPH/VPH & EPH, % Moisture	None	TAL SEA

Protocol References:

None = None

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-7674-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-7674-1	KLF-15-010.75	Solid	08/07/19 10:46	08/08/19 13:12	
570-7674-2	KLF-15-015.75	Solid	08/07/19 10:59	08/08/19 13:12	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 580-88262-1
Client Project/Site: 72864 Former Exxon Mobile Station

For:
Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, California 92841

Attn: Cecile L deGuia

Authorized for release by:
9/17/2019 3:17:29 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-88262-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-88262-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2019 1:12 PM. The temperature of the cooler at receipt was 18.8º C.

Receipt Exceptions
One stirbar vial container for the following sample was received broken: KLF-15-015.75 (580-88262-2).

The following samples were received at the laboratory outside the required temperature criteria: KLF-15-010.75 (580-88262-1), KLF-15-015.75 (580-88262-2) and Trip Blank (580-88262-3).

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

GC/MS VOA
Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: KLF-15-010.75 (580-88262-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were reanalyzed outside of analytical holding time: KLF-15-010.75 (580-88262-1) and KLF-15-015.75 (580-88262-2).

Method(s) 8260C: Surrogate recovery for the following sample was outside control limits: KLF-15-010.75 (580-88262-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The reanalysis of the following sample was run after a sample containing E-flags for all reporting analytes: KLF-15-015.75 (580-88262-2). There is insufficient volume to rerun this sample to verify the results. Results may be biased high due to carryover.

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

GC VOA
Method(s) NWTPH-Gx: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to necessary dilution and re-analysis to confirm carry over. Both sets of data have been reported : KLF-15-010.75 (580-88262-1) and KLF-15-015.75 (580-88262-2).

Method(s) NWTPH-Gx: The following samples were diluted to bring the concentration of target analytes within the calibration range: KLF-15-010.75 (580-88262-1), KLF-15-015.75 (580-88262-2), (CCB 580-309275/6), (CCV 580-309275/12), (CCVRT 580-309275/5) and (RTC 580-309275/4). Elevated reporting limits (RLs) are provided.

Method(s) NWTPH-Gx: The following sample was analyzed at reduced volume due to high concentrations of target analytes: KLF-15-010.75 (580-88262-1). The calculation was done using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method(s) NWTPH-Gx: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: A middle bracketing CCV failed high due to apparent misspike. The CCVs that injected before and after it recovered within acceptance limits. All other QC passes.

Method(s) NWTPH/VPH: The following sample was diluted to bring the concentration of target analytes within the calibration range: KLF-15-010.75 (580-88262-1). Elevated reporting limits (RLs) are provided.

Method(s) NWTPH/VPH: Reanalysis of the following sample was performed outside of the analytical holding time : KLF-15-010.75 (580-88262-1).

Job ID: 580-88262-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Method(s) NWTPH/VPH: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-308470 and analytical batch 580-308579 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method(s) NWTPH/EPH: Out-of-hold sample data associated with LCS/LCSD from preparation batch 580-309338 and 580-309973 and analytical batch 580-310058, which recover outside control limits for C10-C12 and C12-C16 aromatic and aliphatic compounds, are reported as secondary data. The samples were re-extracted out-of-hold with corroborating results. In-hold data is reported as primary.

Method(s) NWTPH/EPH: The method blank for preparation batch 580-309338 and 580-309973 and analytical batch 580-310058 contained C16-C21 aliphatic compounds above the method detection limit. The chromatogram was reviewed and based on retention time data, the aliphatic method blank is likely contaminated with improperly fractionated o-Terphenyl surrogate. Other samples associated with this method blank were reviewed and determined to be properly fractionated. This C16-C21 aliphatic analyte concentration was less than half the reporting limit (1/2 RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) NWTPH/EPH: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 580-309338 and 580-309973 and analytical batch 580-310225 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

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

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

Organic Prep
Method(s) 3550B: The following sample was prepared outside of preparation holding time due to rework: KLF-15-010.75 (580-88262-1)

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

VOA Prep
Method(s) 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF-15-010.75 (580-88262-1) and KLF-15-015.75 (580-88262-2). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above this range.

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

Definitions/Glossary

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Client Sample ID: KLF-15-010.75

Date Collected: 08/07/19 10:46
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-1

Matrix: Solid
Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	300	E	1.6	0.31	ug/Kg	☼	08/08/19 16:25	08/13/19 19:23	1
Benzene	480	H	260	33	ug/Kg	☼	08/26/19 08:05	08/27/19 00:43	1
Toluene	92		7.7	1.0	ug/Kg	☼	08/08/19 16:25	08/16/19 04:01	1
Toluene	1600	H	1300	120	ug/Kg	☼	08/26/19 08:05	08/27/19 00:43	1
Ethylbenzene	710	E	1.6	0.33	ug/Kg	☼	08/08/19 16:25	08/13/19 19:23	1
Ethylbenzene	4100	H	350	80	ug/Kg	☼	08/26/19 08:05	08/27/19 00:43	1
m-Xylene & p-Xylene	1200	E	8.0	1.4	ug/Kg	☼	08/08/19 16:25	08/13/19 19:23	1
m-Xylene & p-Xylene	15000	H	1700	130	ug/Kg	☼	08/26/19 08:05	08/27/19 00:43	1
o-Xylene	710	E	4.0	0.74	ug/Kg	☼	08/08/19 16:25	08/13/19 19:23	1
o-Xylene	4500	H	520	120	ug/Kg	☼	08/26/19 08:05	08/27/19 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:23*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*08/08/19 16:25*	*08/16/19 04:01*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:43*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:23*	*1*
Trifluorotoluene (Surr)	*39092*	*X*	*80 - 120*	*08/08/19 16:25*	*08/16/19 04:01*	*1*
Trifluorotoluene (Surr)	*93*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:43*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:23*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*	*08/08/19 16:25*	*08/16/19 04:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:43*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:23*	*1*
Dibromofluoromethane (Surr)	*40682*	*X*	*80 - 120*	*08/08/19 16:25*	*08/16/19 04:01*	*1*
Dibromofluoromethane (Surr)	*92*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*	*08/08/19 16:25*	*08/13/19 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*48060*	*X*	*80 - 121*	*08/08/19 16:25*	*08/16/19 04:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*08/26/19 08:05*	*08/27/19 00:43*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	160		150	37	mg/Kg	☼	08/15/19 13:52	08/16/19 18:12	1
C8-C10 Aliphatics	230		150	38	mg/Kg	☼	08/15/19 13:52	08/16/19 18:12	1
C8-C10 Aromatics	170		150	25	mg/Kg	☼	08/15/19 13:52	08/16/19 18:12	1
C5-C6 Aliphatics	240		150	34	mg/Kg	☼	08/15/19 13:52	08/16/19 18:12	1
C6-C8 Aliphatics	100	J H	290	74	mg/Kg	☼	08/15/19 13:52	08/27/19 13:48	1
Total VPH	2100		1000	81	mg/Kg	☼	08/15/19 13:52	08/16/19 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*	*08/15/19 13:52*	*08/16/19 18:12*	*1*
4-Bromofluorobenzene	*101*		*60 - 140*	*08/15/19 13:52*	*08/27/19 13:48*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	200	H	150	40	mg/Kg	☼	08/15/19 13:52	08/29/19 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*90*		*60 - 140*	*08/15/19 13:52*	*08/29/19 20:52*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	910	E	4.1	1.9	mg/Kg	☼	08/16/19 10:10	08/16/19 13:43	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Client Sample ID: KLF-15-010.75

Date Collected: 08/07/19 10:46
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-1

Matrix: Solid
Percent Solids: 92.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	X	50 - 150	08/16/19 10:10	08/16/19 13:43	1
Trifluorotoluene (Surr)				08/16/19 10:10	08/16/19 13:43	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	870	H	44	20	mg/Kg	☼	08/16/19 10:10	08/24/19 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		50 - 150	08/16/19 10:10	08/24/19 16:07	1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	19	J *	53	8.8	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C12-C16 Aromatics	12	J *	53	4.6	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C16-C21 Aromatics	ND		53	6.7	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C21-C34 Aromatics	ND		53	11	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C10-C12 Aliphatics	17	J *	53	5.1	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C12-C16 Aliphatics	8.1	J *	53	4.6	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C16-C21 Aliphatics	ND	*	53	6.4	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10
C21-C34 Aliphatics	22	J *	53	13	mg/Kg	☼	08/12/19 10:30	09/06/19 01:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	92		60 - 140	08/12/19 10:30	09/06/19 01:36	10
o-Terphenyl	83		60 - 140	08/12/19 10:30	09/06/19 01:36	10

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	20	J H *	53	8.9	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10
C12-C16 Aromatics	17	J H *	53	4.7	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10
C10-C12 Aliphatics	30	J H *	53	5.1	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10
C12-C16 Aliphatics	19	J H *	53	4.7	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10
C16-C21 Aliphatics	6.6	J H B	53	6.5	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10
C21-C34 Aliphatics	42	J H	53	13	mg/Kg	☼	08/26/19 11:27	09/04/19 17:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	125		60 - 140	08/26/19 11:27	09/04/19 17:04	10
o-Terphenyl	73		60 - 140	08/26/19 11:27	09/04/19 17:04	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.3		0.1	0.1	%			08/22/19 13:49	1
Percent Moisture	7.7		0.1	0.1	%			08/22/19 13:49	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Client Sample ID: KLF-15-015.75

Date Collected: 08/07/19 10:59
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-2

Matrix: Solid
Percent Solids: 78.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.1		2.1	0.41	ug/Kg	☼	08/08/19 16:25	08/13/19 19:48	1
Benzene	88	H	36	4.6	ug/Kg	☼	08/26/19 08:05	08/27/19 00:18	1
Toluene	7.3	J	10	1.4	ug/Kg	☼	08/08/19 16:25	08/13/19 19:48	1
Toluene	140	J H	180	16	ug/Kg	☼	08/26/19 08:05	08/27/19 00:18	1
Ethylbenzene	19		2.1	0.43	ug/Kg	☼	08/08/19 16:25	08/13/19 19:48	1
Ethylbenzene	1300	H	48	11	ug/Kg	☼	08/26/19 08:05	08/27/19 00:18	1
m-Xylene & p-Xylene	74		10	1.8	ug/Kg	☼	08/08/19 16:25	08/13/19 19:48	1
m-Xylene & p-Xylene	2700	H	240	18	ug/Kg	☼	08/26/19 08:05	08/27/19 00:18	1
o-Xylene	25		5.2	0.96	ug/Kg	☼	08/08/19 16:25	08/13/19 19:48	1
o-Xylene	730	H	72	16	ug/Kg	☼	08/26/19 08:05	08/27/19 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:48*	*1*
Toluene-d8 (Surr)	*112*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:18*	*1*
Trifluorotoluene (Surr)	*87*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:48*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:18*	*1*
Dibromofluoromethane (Surr)	*91*		*80 - 120*	*08/08/19 16:25*	*08/13/19 19:48*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*	*08/26/19 08:05*	*08/27/19 00:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*	*08/08/19 16:25*	*08/13/19 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 121*	*08/26/19 08:05*	*08/27/19 00:18*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	26		6.0	2.8	mg/Kg	☼	08/16/19 10:10	08/16/19 14:07	1
Gasoline	18	H	6.0	2.8	mg/Kg	☼	08/16/19 10:10	08/24/19 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*08/16/19 10:10*	*08/16/19 14:07*	*1*
4-Bromofluorobenzene (Surr)	*90*		*50 - 150*	*08/16/19 10:10*	*08/24/19 15:42*	*1*
Trifluorotoluene (Surr)				*08/16/19 10:10*	*08/16/19 14:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.0		0.1	0.1	%			08/22/19 13:49	1
Percent Moisture	22.0		0.1	0.1	%			08/22/19 13:49	1

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

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

Lab Sample ID: MB 580-308199/1-A
Matrix: Solid
Analysis Batch: 308208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/13/19 09:50	08/13/19 12:24	1
Toluene	ND		10	1.3	ug/Kg		08/13/19 09:50	08/13/19 12:24	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/13/19 09:50	08/13/19 12:24	1
m-Xylene & p-Xylene	ND		10	1.7	ug/Kg		08/13/19 09:50	08/13/19 12:24	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/13/19 09:50	08/13/19 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*	*08/13/19 09:50*	*08/13/19 12:24*	*1*
Trifluorotoluene (Surr)	*90*		*80 - 120*	*08/13/19 09:50*	*08/13/19 12:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*08/13/19 09:50*	*08/13/19 12:24*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*	*08/13/19 09:50*	*08/13/19 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*	*08/13/19 09:50*	*08/13/19 12:24*	*1*

Lab Sample ID: LCS 580-308199/2-A
Matrix: Solid
Analysis Batch: 308208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.7		ug/Kg		99	72 - 135
Toluene	20.0	18.5		ug/Kg		93	75 - 137
Ethylbenzene	20.0	18.6		ug/Kg		93	80 - 135
m-Xylene & p-Xylene	20.0	18.3		ug/Kg		92	80 - 132
o-Xylene	20.0	18.5		ug/Kg		93	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*88*		*80 - 120*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*

Lab Sample ID: LCSD 580-308199/3-A
Matrix: Solid
Analysis Batch: 308208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.3		ug/Kg		97	72 - 135	2	15
Toluene	20.0	17.9		ug/Kg		89	75 - 137	4	20
Ethylbenzene	20.0	17.5		ug/Kg		87	80 - 135	6	16
m-Xylene & p-Xylene	20.0	17.4		ug/Kg		87	80 - 132	5	20
o-Xylene	20.0	18.4		ug/Kg		92	80 - 125	1	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*89*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*

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

Lab Sample ID: LCSD 580-308199/3-A
Matrix: Solid
Analysis Batch: 308208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308199

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 121

Lab Sample ID: MB 580-308505/1-A
Matrix: Solid
Analysis Batch: 308512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/15/19 17:17	08/16/19 01:08	1
Toluene	ND		10	1.3	ug/Kg		08/15/19 17:17	08/16/19 01:08	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/15/19 17:17	08/16/19 01:08	1
m-Xylene & p-Xylene	ND		10	1.7	ug/Kg		08/15/19 17:17	08/16/19 01:08	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/15/19 17:17	08/16/19 01:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		80 - 120	08/15/19 17:17	08/16/19 01:08	1
Trifluorotoluene (Surr)	87		80 - 120	08/15/19 17:17	08/16/19 01:08	1
4-Bromofluorobenzene (Surr)	98		80 - 120	08/15/19 17:17	08/16/19 01:08	1
Dibromofluoromethane (Surr)	97		80 - 120	08/15/19 17:17	08/16/19 01:08	1
1,2-Dichloroethane-d4 (Surr)	110		80 - 121	08/15/19 17:17	08/16/19 01:08	1

Lab Sample ID: LCS 580-308505/2-A
Matrix: Solid
Analysis Batch: 308512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	18.2		ug/Kg		91	72 - 135
Toluene	20.0	17.9		ug/Kg		89	75 - 137
Ethylbenzene	20.0	17.6		ug/Kg		88	80 - 135
m-Xylene & p-Xylene	20.0	17.5		ug/Kg		88	80 - 132
o-Xylene	20.0	17.7		ug/Kg		88	80 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
Trifluorotoluene (Surr)	87		80 - 120
4-Bromofluorobenzene (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		80 - 121

Lab Sample ID: LCSD 580-308505/3-A
Matrix: Solid
Analysis Batch: 308512

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.8		ug/Kg		99	72 - 135	8	15
Toluene	20.0	18.5		ug/Kg		93	75 - 137	4	20
Ethylbenzene	20.0	18.6		ug/Kg		93	80 - 135	5	16
m-Xylene & p-Xylene	20.0	18.3		ug/Kg		91	80 - 132	4	20
o-Xylene	20.0	19.1		ug/Kg		95	80 - 125	8	14

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*87*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 121*

Lab Sample ID: MB 580-309453/1-A
Matrix: Solid
Analysis Batch: 309520

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		30	3.8	ug/Kg		08/26/19 08:05	08/26/19 17:17	1
Toluene	ND		150	14	ug/Kg		08/26/19 08:05	08/26/19 17:17	1
Ethylbenzene	ND		40	9.1	ug/Kg		08/26/19 08:05	08/26/19 17:17	1
m-Xylene & p-Xylene	ND		200	15	ug/Kg		08/26/19 08:05	08/26/19 17:17	1
o-Xylene	ND		60	13	ug/Kg		08/26/19 08:05	08/26/19 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*113*		*80 - 120*	*08/26/19 08:05*	*08/26/19 17:17*	*1*
Trifluorotoluene (Surr)	*92*		*80 - 120*	*08/26/19 08:05*	*08/26/19 17:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*08/26/19 08:05*	*08/26/19 17:17*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*	*08/26/19 08:05*	*08/26/19 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 121*	*08/26/19 08:05*	*08/26/19 17:17*	*1*

Lab Sample ID: LCS 580-309453/2-A
Matrix: Solid
Analysis Batch: 309520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	800	713		ug/Kg		89	72 - 135
Toluene	800	907		ug/Kg		113	75 - 137
Ethylbenzene	800	919		ug/Kg		115	80 - 135
m-Xylene & p-Xylene	800	924		ug/Kg		116	80 - 132
o-Xylene	800	912		ug/Kg		114	80 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*111*		*80 - 120*
Trifluorotoluene (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 121*

Lab Sample ID: LCSD 580-309453/3-A
Matrix: Solid
Analysis Batch: 309520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309453

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	800	735		ug/Kg		92	72 - 135	3	15
Toluene	800	931		ug/Kg		116	75 - 137	3	20
Ethylbenzene	800	943		ug/Kg		118	80 - 135	3	16
m-Xylene & p-Xylene	800	946		ug/Kg		118	80 - 132	2	20

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

Lab Sample ID: LCSD 580-309453/3-A
Matrix: Solid
Analysis Batch: 309520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			800	929		ug/Kg		116	80 - 125	2	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*113*		*80 - 120*
Trifluorotoluene (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Lab Sample ID: MB 580-308470/1-A
Matrix: Solid
Analysis Batch: 308494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5.0	1.3	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
C10-C12 Aromatics	ND		5.0	1.4	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
C8-C10 Aliphatics	ND		5.0	1.3	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
C8-C10 Aromatics	ND		5.0	0.86	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
C5-C6 Aliphatics	ND		5.0	1.2	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
C6-C8 Aliphatics	ND		5.0	1.3	mg/Kg		08/15/19 10:00	08/15/19 14:33	1
Total VPH	ND		35	2.8	mg/Kg		08/15/19 10:00	08/15/19 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*100*		*60 - 140*	*08/15/19 10:00*	*08/15/19 14:33*	*1*
4-Bromofluorobenzene	*98*		*60 - 140*	*08/15/19 10:00*	*08/15/19 14:33*	*1*

Lab Sample ID: LCS 580-308470/2-A
Matrix: Solid
Analysis Batch: 308494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308470

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C12 Aliphatics			4.00	4.37	J	mg/Kg		109	70 - 130		
C10-C12 Aromatics			4.00	4.29	J	mg/Kg		107	70 - 130		
C8-C10 Aliphatics			8.00	9.91		mg/Kg		124	70 - 130		
C8-C10 Aromatics			16.0	15.4		mg/Kg		96	70 - 130		
C5-C6 Aliphatics			8.00	6.33		mg/Kg		79	70 - 130		
C6-C8 Aliphatics			4.00	4.17	J	mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BFB - PID	*99*		*60 - 140*
4-Bromofluorobenzene	*99*		*60 - 140*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) (Continued)

Lab Sample ID: LCSD 580-308470/3-A
Matrix: Solid
Analysis Batch: 308494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	4.00	4.42	J	mg/Kg		110	70 - 130	1	25
C10-C12 Aromatics	4.00	4.33	J	mg/Kg		108	70 - 130	1	25
C8-C10 Aliphatics	8.00	10.2		mg/Kg		128	70 - 130	3	25
C8-C10 Aromatics	16.0	15.7		mg/Kg		98	70 - 130	2	25
C5-C6 Aliphatics	8.00	6.31		mg/Kg		79	70 - 130	0	25
C6-C8 Aliphatics	4.00	4.19	J	mg/Kg		105	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
BFB - PID	*99*		*60 - 140*
4-Bromofluorobenzene	*98*		*60 - 140*

Lab Sample ID: MB 580-309496/1-A
Matrix: Solid
Analysis Batch: 309772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5.0	1.3	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
C10-C12 Aromatics	ND		5.0	1.4	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
C8-C10 Aliphatics	ND		5.0	1.3	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
C8-C10 Aromatics	ND		5.0	0.86	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
C5-C6 Aliphatics	ND		5.0	1.2	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
C6-C8 Aliphatics	ND		5.0	1.3	mg/Kg		08/27/19 14:43	08/30/19 01:20	1
Total VPH	ND		35	2.8	mg/Kg		08/27/19 14:43	08/30/19 01:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*105*		*60 - 140*	*08/27/19 14:43*	*08/30/19 01:20*	*1*
4-Bromofluorobenzene	*100*		*60 - 140*	*08/27/19 14:43*	*08/30/19 01:20*	*1*

Lab Sample ID: LCS 580-309496/2-A
Matrix: Solid
Analysis Batch: 309772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	4.00	4.06	J	mg/Kg		102	70 - 130
C10-C12 Aromatics	4.00	4.64	J	mg/Kg		116	70 - 130
C8-C10 Aliphatics	8.00	8.71		mg/Kg		109	70 - 130
C8-C10 Aromatics	16.0	16.6		mg/Kg		104	70 - 130
C5-C6 Aliphatics	8.00	8.22		mg/Kg		103	70 - 130
C6-C8 Aliphatics	4.00	4.10	J	mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*
4-Bromofluorobenzene	*100*		*60 - 140*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) (Continued)

Lab Sample ID: LCSD 580-309496/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 309772 — **Prep Batch: 309496**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics			4.00	4.08	J	mg/Kg		102	70 - 130	0	25
C10-C12 Aromatics			4.00	4.57	J	mg/Kg		114	70 - 130	2	25
C8-C10 Aliphatics			8.00	8.75		mg/Kg		109	70 - 130	0	25
C8-C10 Aromatics			16.0	16.6		mg/Kg		104	70 - 130	0	25
C5-C6 Aliphatics			8.00	8.47		mg/Kg		106	70 - 130	3	25
C6-C8 Aliphatics			4.00	4.12	J	mg/Kg		103	70 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*
4-Bromofluorobenzene	*101*		*60 - 140*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-308543/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 308593 — **Prep Batch: 308543**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	2.3	mg/Kg		08/16/19 10:01	08/16/19 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*	*08/16/19 10:01*	*08/16/19 11:18*	*1*
Trifluorotoluene (Surr)	*96*		*50 - 150*	*08/16/19 10:01*	*08/16/19 11:18*	*1*

Lab Sample ID: LCS 580-308543/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 308593 — **Prep Batch: 308543**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			40.0	35.6		mg/Kg		89	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*50 - 150*
Trifluorotoluene (Surr)	*93*		*50 - 150*

Lab Sample ID: LCSD 580-308543/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 308593 — **Prep Batch: 308543**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			40.0	36.1		mg/Kg		90	80 - 120	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*
Trifluorotoluene (Surr)	*103*		*50 - 150*

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 580-308102/1-B
Matrix: Solid
Analysis Batch: 310345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		5.0	0.84	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C12-C16 Aromatics	ND		5.0	0.44	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C16-C21 Aromatics	ND		5.0	0.64	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C21-C34 Aromatics	ND		5.0	1.0	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C10-C12 Aliphatics	ND		5.0	0.48	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C12-C16 Aliphatics	ND		5.0	0.44	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C16-C21 Aliphatics	ND		5.0	0.61	mg/Kg		08/12/19 10:30	09/05/19 18:05	1
C21-C34 Aliphatics	ND		5.0	1.2	mg/Kg		08/12/19 10:30	09/05/19 18:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*85*		*60 - 140*	*08/12/19 10:30*	*09/05/19 18:05*	*1*
o-Terphenyl	*79*		*60 - 140*	*08/12/19 10:30*	*09/05/19 18:05*	*1*

Lab Sample ID: LCS 580-308102/2-B
Matrix: Solid
Analysis Batch: 310345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	1.33	ND	*	mg/Kg		60	70 - 130
C12-C16 Aromatics	4.00	2.61	J *	mg/Kg		65	70 - 130
C16-C21 Aromatics	6.67	5.26		mg/Kg		79	70 - 130
C21-C34 Aromatics	10.7	8.14		mg/Kg		76	70 - 130
C10-C12 Aliphatics	1.33	1.10	J	mg/Kg		83	70 - 130
C12-C16 Aliphatics	2.67	2.29	J	mg/Kg		86	70 - 130
C16-C21 Aliphatics	4.00	3.91	J	mg/Kg		98	70 - 130
C21-C34 Aliphatics	8.00	7.57		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*81*		*60 - 140*
o-Terphenyl	*74*		*60 - 140*

Lab Sample ID: LCSD 580-308102/17-B
Matrix: Solid
Analysis Batch: 310345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aromatics	1.33	0.992	J	mg/Kg		74	70 - 130	21	25
C12-C16 Aromatics	4.00	3.24	J	mg/Kg		81	70 - 130	22	25
C16-C21 Aromatics	6.67	6.49		mg/Kg		97	70 - 130	21	25
C21-C34 Aromatics	10.7	9.95		mg/Kg		93	70 - 130	20	25
C10-C12 Aliphatics	1.33	ND	*	mg/Kg		-4	70 - 130	222	25
C12-C16 Aliphatics	2.67	ND	*	mg/Kg		-4	70 - 130	218	25
C16-C21 Aliphatics	4.00	ND	*	mg/Kg		0	70 - 130	200	25
C21-C34 Aliphatics	8.00	ND	*	mg/Kg		-1	70 - 130	206	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*0.2*	*X*	*60 - 140*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 580-308102/17-B
Matrix: Solid
Analysis Batch: 310345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 308102

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-Terphenyl	91		60 - 140

Lab Sample ID: MB 580-309338/1-B
Matrix: Solid
Analysis Batch: 310058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		5.0	0.84	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C12-C16 Aromatics	ND		5.0	0.44	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C16-C21 Aromatics	ND		5.0	0.64	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C21-C34 Aromatics	ND		5.0	1.0	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C10-C12 Aliphatics	ND		5.0	0.48	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C12-C16 Aliphatics	ND		5.0	0.44	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C16-C21 Aliphatics	1.18	J	5.0	0.61	mg/Kg		08/26/19 11:27	09/03/19 11:58	1
C21-C34 Aliphatics	ND		5.0	1.2	mg/Kg		08/26/19 11:27	09/03/19 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctadecane	126		60 - 140	08/26/19 11:27	09/03/19 11:58	1
o-Terphenyl	64		60 - 140	08/26/19 11:27	09/03/19 11:58	1

Lab Sample ID: LCS 580-309338/2-B
Matrix: Solid
Analysis Batch: 310058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	1.33	ND	*	mg/Kg		53	70 - 130
C12-C16 Aromatics	4.00	2.55	J *	mg/Kg		64	70 - 130
C16-C21 Aromatics	6.67	5.29		mg/Kg		79	70 - 130
C21-C34 Aromatics	10.7	8.32		mg/Kg		78	70 - 130
C10-C12 Aliphatics	1.33	0.904	J *	mg/Kg		68	70 - 130
C12-C16 Aliphatics	2.67	2.07	J	mg/Kg		78	70 - 130
C16-C21 Aliphatics	4.00	3.91	J	mg/Kg		98	70 - 130
C21-C34 Aliphatics	8.00	7.57		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctadecane	85		60 - 140
o-Terphenyl	77		60 - 140

Lab Sample ID: LCSD 580-309338/3-B
Matrix: Solid
Analysis Batch: 310058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309338

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aromatics	1.33	ND	*	mg/Kg		51	70 - 130	3	25
C12-C16 Aromatics	4.00	2.45	J *	mg/Kg		61	70 - 130	4	25
C16-C21 Aromatics	6.67	5.08		mg/Kg		76	70 - 130	4	25
C21-C34 Aromatics	10.7	7.96		mg/Kg		75	70 - 130	4	25
C10-C12 Aliphatics	1.33	0.827	J *	mg/Kg		62	70 - 130	9	25

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 580-309338/3-B
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 310058
Prep Batch: 309338

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C12-C16 Aliphatics			2.67	1.81	J *	mg/Kg		68	70 - 130	13	25
C16-C21 Aliphatics			4.00	3.44	J	mg/Kg		86	70 - 130	13	25
C21-C34 Aliphatics			8.00	6.79		mg/Kg		85	70 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*77*		*60 - 140*
o-Terphenyl	*76*		*60 - 140*

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Client Sample ID: KLF-15-010.75
Date Collected: 08/07/19 10:46
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	309111	08/22/19 13:49	JCM	TAL SEA

Client Sample ID: KLF-15-010.75
Date Collected: 08/07/19 10:46
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-1
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			308199	08/08/19 16:25	JSM	TAL SEA
Total/NA	Analysis	8260C		1	308208	08/13/19 19:23	CJ	TAL SEA
Total/NA	Prep	5035			308505	08/08/19 16:25	APR	TAL SEA
Total/NA	Analysis	8260C		1	308512	08/16/19 04:01	APR	TAL SEA
Total/NA	Prep	5035			309453	08/26/19 08:05	ASJ	TAL SEA
Total/NA	Analysis	8260C		1	309520	08/27/19 00:43	T1W	TAL SEA
Total/NA	Prep	5035			308470	08/15/19 13:52	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	308579	08/16/19 18:12	JSM	TAL SEA
Total/NA	Prep	5035			308470	08/15/19 13:52	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	309495	08/27/19 13:48	T1W	TAL SEA
Total/NA	Prep	5035	RA		308470	08/15/19 13:52	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	309772	08/29/19 20:52	JSM	TAL SEA
Total/NA	Prep	5035			308543	08/16/19 10:10	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	308593	08/16/19 13:43	T1W	TAL SEA
Total/NA	Prep	5035	DL		308543	08/16/19 10:10	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx	DL	1	309275	08/24/19 16:07	DCV	TAL SEA
Total/NA	Prep	3550B	RE		309338	08/26/19 11:27	FCG	TAL SEA
Total/NA	Fraction	EPH Frac	RE		309973	09/01/19 12:58	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH	RE	10	310225	09/04/19 17:04	JCM	TAL SEA
Total/NA	Prep	3550B			308102	08/12/19 10:30	MLT	TAL SEA
Total/NA	Fraction	EPH Frac			308669	08/18/19 09:48	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		10	310345	09/06/19 01:36	JCM	TAL SEA

Client Sample ID: KLF-15-015.75
Date Collected: 08/07/19 10:59
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	309111	08/22/19 13:49	JCM	TAL SEA

Client Sample ID: KLF-15-015.75
Date Collected: 08/07/19 10:59
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-2
Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			308199	08/08/19 16:25	JSM	TAL SEA
Total/NA	Analysis	8260C		1	308208	08/13/19 19:48	CJ	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Client Sample ID: KLF-15-015.75

Date Collected: 08/07/19 10:59
Date Received: 08/08/19 13:12

Lab Sample ID: 580-88262-2

Matrix: Solid
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			309453	08/26/19 08:05	ASJ	TAL SEA
Total/NA	Analysis	8260C		1	309520	08/27/19 00:18	T1W	TAL SEA
Total/NA	Prep	5035			308543	08/16/19 10:10	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	308593	08/16/19 14:07	T1W	TAL SEA
Total/NA	Prep	5035			308543	08/16/19 10:10	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	309275	08/24/19 15:42	DCV	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Eurofins Calscience LLC
Job ID: 580-88262-1
Project/Site: 72864 Former Exxon Mobile Station

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
Alaska (UST)	State Program	17-024	01-19-20
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	DoD	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
California	State Program	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Montana (UST)	State Program	N/A	04-30-20
Oregon	NELAP	WA100007	11-05-19
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	Federal	LE058448-0	07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P330-14-00126	02-10-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20
Washington	State Program	C553	02-17-20

Sample Summary

Client: Eurofins Calscience LLC
Project/Site: 72864 Former Exxon Mobile Station

Job ID: 580-88262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-88262-1	KLF-15-010.75	Solid	08/07/19 10:46	08/08/19 13:12	
580-88262-2	KLF-15-015.75	Solid	08/07/19 10:59	08/08/19 13:12	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 580
88262

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: KLEINFELDER	Client Contact: Brett O'Brien	Date: 8-7-2019	Chain of Custody Number: 38409
Address: 14710 NE 87th St. Suite 100	Telephone Number (Area Code)/Fax Number: 360.333.8925 / 425.636.7901	Lab Number:	Page 1 of 1
City: Redmond; State: WA; Zip Code: 98052	Sampler: B. O'Brien	Lab Contact: N. Lewis	
Project Name and Location (State): 72864 Former ExxonMobil Station	Billing Contact: Rebecca Rodgers		
Contract/Purchase Order/Quote No.: Shipping Order ID: 34954			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): BTEX	TPH-Dx	VPH	EPH
KLF-15-010.75	8-7-2019	1046				X	X						X	X	X	X
KLF-15-015.75	8-7-2019	1059				X	X						X	X		

Special Instructions/ Conditions of Receipt

580-88262 Chain of Custody

Therm. ID: IR4 Cor: 18.8 Unc: 19.1
Cooler Dsc: Sm Cld
Packing: Bub
Cust. Seal: Yes ☐ No ☑
Blue Ice, Wet, Dry, None
FedEx: ☐
UPS: ☑
Lab Cour: ☐
Other: ☐

Cooler: ☒ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☒ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: [signature] / Brett O'Brien	8-7-2019		1. Received By Sign/Print: [signature]	8/8/19	1312
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0409)

Login Sample Receipt Checklist

Client: Eurofins Calscience LLC

Job Number: 580-88262-1

Login Number: 88262
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

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

TestAmerica
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www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client: KLEINFELDER	Client Contact: Brett O'Brien	Date: 8-7-2019	Chain of Custody Number: 38409
Address: 14710 NE 87th St. Suite 100	Telephone Number (Area Code)/Fax Number: 360.333.8925 / 425.636.7901	Lab Number:	Page 1 of 1
City: Redmond; State: WA; Zip Code: 98052	Sampler: B.O'Brien	Lab Contact: N. Lewis	
Project Name and Location (State): 72864 Former ExxonMobil Station	Billing Contact: Rebecca Rodgers		
Contract/Purchase Order/Quote No.: Shipping Order ID: 34954			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): BTEX	TPH-G	VPH	EPH
KLF-15-010.75	8-7-2019	1046				X	X						X	X	X	X
KLF-15-015.75	8-7-2019	1059				X	X						X	X	X	X

Special Instructions/ Conditions of Receipt

570-7674 Chain of Custody

Therm. ID: IR4 Cor: 18.8° Unc: 19.1°
Cooler Dsc: Sm Cld
Packing: Bulk
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ✓
UPS: ✓
Lab Courr: ___
Other: ___

Cooler: ☒ Yes ☐ No Cooler Temp: ___

Possible Hazard Identification: ☐ Non-Hazard ☒ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other ___

QC Requirements (Specify)

Relinquished By (Sign/Print)	Date	Time	Received By (Sign/Print)	Date	Time
1. / Brett O'Brien	8-7-2019		1.	8/8/19	1312
2.			2.		
3.			3.		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-7674-1

Login Number: 7674
List Number: 1
Creator: Chang, Wen-Shiang

List Source: Eurofins Calscience

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

ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-16753-1
Client Project/Site: Former ExxonMobil 72864

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
12/27/2019 4:15:00 PM

Cecile de Guia, Project Manager I
(714)895-5494
ceciledeguia@eurofinsus.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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ANALYTICAL REPORT

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

Laboratory Job ID: 580-90996-1
Client Project/Site: Soils

For:
Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, California 92841

Attn: Cecile L deGuia

Authorized for release by:
12/16/2019 3:08:53 PM

Nathan Lewis, Project Manager I
(253)922-2310
nathan.lewis@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 580-90996-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-90996-1

Comments
No additional comments.

Receipt
The samples were received on 11/21/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2º C.

Receipt Exceptions
There were 10 extra samples labeled Trip Blank but with sample in the matrix. These samples were labelled as KLF 12-6.00 and KLF 12-5.00 and appeared to have sample added to the blank vials. These samples were identified as TB on the lids but had the sample numbers on the labels. These samples were adulterated and therefore were disposed of.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: KLF 15-10 (580-90996-5) and KLF 12-6.00 (580-90996-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The surrogate recovery for the blank associated with preparation batch 580-318269 and analytical batch 580-318323 was outside the upper control limits. The target analytes were non-detects, therefore the data have been reported.

Method 8260C: Surrogate recovery for the following sample was outside control limits: KLF 15-15 (580-90996-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: Reanalysis of the following samples were performed outside of the analytical holding time: KLF 15-10 (580-90996-5), KLF 15-15 (580-90996-6) and KLF 12-6.00 (580-90996-7).

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-318157 and analytical batch 580-318158 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 580-318158 recovered outside acceptance criteria, low biased, for 4-Chlorotoluene, n-Butylbenzene and sec-Butylbenzene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The CCV for preparation batch 580-318157 and analytical batch 580-318158 recovered outside control limits for the following analyte: Naphthalene. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260C: The continuing calibration verification (CCV) associated with batch 580-318158 recovered above the upper control limit for Bromoform, Chlorodibromomethane and Tetrachloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: KLF 15-10 (580-90996-5), KLF 15-15 (580-90996-6), KLF 12-6.00 (580-90996-7) and (CCVIS 580-318158/3).

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

GC/MS Semi VOA
Method 8270D: Twice the typical volume of surrogate spiking solution was inadvertently added the following samples: KLF 10-4.50 (580-90996-2). Percent recoveries are based on the amount spiked.

Methods 8270D, 8270E: 2,4,6-Tribromophenol surrogate recovery for the blank associated with preparation batch 580-317967 and analytical batch 580-318077 was outside lower control limits. This surrogate is within recovery for all other QC and associated samples, therefore the data are qualified and reported.

Job ID: 580-90996-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: KLF 12-6.00 (580-90996-7). Elevated reporting limits (RLs) are provided.

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

GC VOA
Method NWTPH-Gx: The following sample was analyzed at reduced volume due to high concentrations of target analytes: KLF 12-6.00 (580-90996-7). The calculation was done using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method NWTPH-Gx: The following sample was diluted due to the nature of the sample matrix: KLF 12-6.00 (580-90996-7). Elevated reporting limits (RLs) are provided.

Method NWTPH/VPH: Reanalysis of the following samples were performed outside of the analytical holding time due to high target hits in the initial analysis and failure of quality control parameters in the initial analysis. KLF 10-4.25 (580-90996-1), KLF 10-4.50 (580-90996-2), KLF 10-6.00 (580-90996-3), KLF 15-10 (580-90996-5), KLF 12-6.00 (580-90996-7), KLF 12-5.00 (580-90996-8) and KLF 11-5.5 (580-90996-9)

Method NWTPH/VPH: The CCV failed low for C10-C12 Aliphatics. Samples are reported as secondary from this run and primary from the out of hold reanalysis.

Method NWTPH/VPH: Samples KLF 15-10 (580-90996-5) and KLF 12-6.00 (580-90996-7) have been reported with concentrations outside of calibration range as reanalysis was performed out of holding time.

Method NWTPH/VPH: The following sample was analyzed at reduced volume due to high concentrations of target analytes: KLF 12-6.00 (580-90996-7). The calculation was done using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

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

GC Semi VOA
Method NWTPH/EPH: In analytical batch 580-318760, E flag(s) for the following samples were manually removed for the C10-C12 aromatic range. The upper range for EPH is defined through peak height. The affected samples had lower peak heights than the highest point in the calibration; therefore, the data has been reported.

Method NWTPH/EPH: The LCS/LCSD precision criteria fails to meet acceptance limits, but the LCS and LCSD recover within 50-150% control limits for all ranges; therefore, the data associated with 580-318102 and 580-318688 are reported.

Method NWTPH/EPH: The following samples were diluted by a factor of 10x prior to fractionation due to the opaque nature of the sample matrix: KLF 11-5.5 (580-90996-9), (580-90996-E-9-H MS) and (580-90996-E-9-I MSD). The samples present a hit in the C21-C34 aliphatic range, suggesting presence of heavy oils. MS/MSD recovery failures are attributed to dilution of the sample as well as potential matrix interference; LCS and LCSD recoveries meet acceptance criteria. Therefore the data associated with these samples are reported.

Method NWTPH/EPH: Surrogate recovery for the following samples were outside control limits: KLF 12-6.00 (580-90996-7), KLF 11-5.5 (580-90996-9) and (580-90996-E-9-I MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Job ID: 580-90996-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

VOA Prep

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF 10-4.25 (580-90996-1), KLF 10-4.50 (580-90996-2), KLF 10-6.00 (580-90996-3), KLF 15-10 (580-90996-5), KLF 15-15 (580-90996-6), KLF 12-6.00 (580-90996-7), KLF 12-5.00 (580-90996-8) and KLF 11-5.5 (580-90996-9). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g, The amount provided was below this range.

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF 10-4.25 (580-90996-1), KLF 10-4.50 (580-90996-2), KLF 10-6.00 (580-90996-3), KLF 12-4.00 (580-90996-4), KLF 15-10 (580-90996-5), KLF 15-15 (580-90996-6), KLF 12-6.00 (580-90996-7), KLF 12-5.00 (580-90996-8) and KLF 11-5.5 (580-90996-9). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

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

Definitions/Glossary

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

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

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.25

Date Collected: 11/19/19 13:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-1

Matrix: Solid
Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.8	0.35	ug/Kg	☼	11/21/19 08:20	11/28/19 21:06	1
Toluene	ND		8.8	1.2	ug/Kg	☼	11/21/19 08:20	11/28/19 21:06	1
Ethylbenzene	**0.95**	**J**	1.8	0.36	ug/Kg	☼	11/21/19 08:20	11/28/19 21:06	1
m-Xylene & p-Xylene	**5.0**	**J**	8.8	1.5	ug/Kg	☼	11/21/19 08:20	11/28/19 21:06	1
o-Xylene	**2.3**	**J**	4.4	0.81	ug/Kg	☼	11/21/19 08:20	11/28/19 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:06*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:06*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 121*	*11/21/19 08:20*	*11/28/19 21:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**60**		27	5.5	ug/Kg	☼	12/02/19 10:57	12/03/19 17:21	1
2-Methylnaphthalene	**180**		55	9.7	ug/Kg	☼	12/02/19 10:57	12/03/19 17:21	1
1-Methylnaphthalene	**63**		33	5.5	ug/Kg	☼	12/02/19 10:57	12/03/19 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*104*		*60 - 125*	*12/02/19 10:57*	*12/03/19 17:21*	*1*
Phenol-d5 (Surr)	*104*		*59 - 120*	*12/02/19 10:57*	*12/03/19 17:21*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*52 - 125*	*12/02/19 10:57*	*12/03/19 17:21*	*1*
Nitrobenzene-d5 (Surr)	*88*		*62 - 120*	*12/02/19 10:57*	*12/03/19 17:21*	*1*
2-Fluorobiphenyl	*95*		*57 - 120*	*12/02/19 10:57*	*12/03/19 17:21*	*1*
Terphenyl-d14 (Surr)	*111*		*58 - 120*	*12/02/19 10:57*	*12/03/19 17:21*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		8.7	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
C10-C12 Aromatics	ND		8.7	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
C8-C10 Aliphatics	ND		8.7	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
C8-C10 Aromatics	**1.5**	**J**	8.7	1.5	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
C5-C6 Aliphatics	ND		8.7	2.0	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
C6-C8 Aliphatics	ND		8.7	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1
Total VPH	**11**	**J**	61	4.8	mg/Kg	☼	12/03/19 09:11	12/03/19 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*96*		*60 - 140*	*12/03/19 09:11*	*12/03/19 20:34*	*1*
4-Bromofluorobenzene	*87*		*60 - 140*	*12/03/19 09:11*	*12/03/19 20:34*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND	H	8.7	2.2	mg/Kg	☼	12/03/19 09:11	12/04/19 14:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**8.0**	**J**	8.7	4.0	mg/Kg	☼	11/27/19 13:38	11/28/19 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*	*11/27/19 13:38*	*11/28/19 11:07*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.25

Lab Sample ID: 580-90996-1
Date Collected: 11/19/19 13:00
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 90.1

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND	*	5.4	0.92	mg/Kg	☼	12/03/19 11:47	12/12/19 21:05	1
C12-C16 Aromatics	ND	*	5.4	0.48	mg/Kg	☼	12/03/19 11:47	12/12/19 21:05	1
C16-C21 Aromatics	ND	*	5.4	0.70	mg/Kg	☼	12/03/19 11:47	12/12/19 21:05	1
C21-C34 Aromatics	ND	*	5.4	1.1	mg/Kg	☼	12/03/19 11:47	12/12/19 21:05	1
C10-C12 Aliphatics	**0.60**	**J**	5.4	0.52	mg/Kg	☼	12/03/19 11:47	12/15/19 18:07	1
C12-C16 Aliphatics	**0.50**	**J**	5.4	0.48	mg/Kg	☼	12/03/19 11:47	12/15/19 18:07	1
C16-C21 Aliphatics	**0.71**	**J**	5.4	0.66	mg/Kg	☼	12/03/19 11:47	12/15/19 18:07	1
C21-C34 Aliphatics	**4.3**	**J**	5.4	1.3	mg/Kg	☼	12/03/19 11:47	12/15/19 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*96*		*60 - 140*	*12/03/19 11:47*	*12/15/19 18:07*	*1*
o-Terphenyl	*87*		*60 - 140*	*12/03/19 11:47*	*12/12/19 21:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**90.1**		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	**9.9**		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.50

Date Collected: 11/19/19 13:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-2

Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.3		1.9	0.37	ug/Kg	☼	11/21/19 08:20	11/28/19 21:34	1
Toluene	ND		9.6	1.2	ug/Kg	☼	11/21/19 08:20	11/28/19 21:34	1
Ethylbenzene	ND		1.9	0.39	ug/Kg	☼	11/21/19 08:20	11/28/19 21:34	1
m-Xylene & p-Xylene	2.4	J	9.6	1.6	ug/Kg	☼	11/21/19 08:20	11/28/19 21:34	1
o-Xylene	0.93	J	4.8	0.88	ug/Kg	☼	11/21/19 08:20	11/28/19 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:34*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:34*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*	*11/21/19 08:20*	*11/28/19 21:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*	*11/21/19 08:20*	*11/28/19 21:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	260		29	5.9	ug/Kg	☼	12/02/19 10:57	12/03/19 17:44	1
2-Methylnaphthalene	390		59	10	ug/Kg	☼	12/02/19 10:57	12/03/19 17:44	1
1-Methylnaphthalene	170		35	5.9	ug/Kg	☼	12/02/19 10:57	12/03/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*89*		*60 - 125*	*12/02/19 10:57*	*12/03/19 17:44*	*1*
Phenol-d5 (Surr)	*93*		*59 - 120*	*12/02/19 10:57*	*12/03/19 17:44*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*52 - 125*	*12/02/19 10:57*	*12/03/19 17:44*	*1*
Nitrobenzene-d5 (Surr)	*81*		*62 - 120*	*12/02/19 10:57*	*12/03/19 17:44*	*1*
2-Fluorobiphenyl	*83*		*57 - 120*	*12/02/19 10:57*	*12/03/19 17:44*	*1*
Terphenyl-d14 (Surr)	*94*		*58 - 120*	*12/02/19 10:57*	*12/03/19 17:44*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	3.3	J	9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
C10-C12 Aromatics	11		9.1	2.5	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
C8-C10 Aliphatics	ND		9.1	2.4	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
C8-C10 Aromatics	2.8	J	9.1	1.6	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
C5-C6 Aliphatics	ND		9.1	2.1	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
C6-C8 Aliphatics	ND		9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1
Total VPH	37	J	64	5.0	mg/Kg	☼	12/03/19 09:11	12/03/19 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*99*		*60 - 140*	*12/03/19 09:11*	*12/03/19 21:04*	*1*
4-Bromofluorobenzene	*94*		*60 - 140*	*12/03/19 09:11*	*12/03/19 21:04*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	3.3	J H	9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/04/19 14:53	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	66		9.1	4.2	mg/Kg	☼	11/27/19 13:38	11/28/19 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*	*11/27/19 13:38*	*11/28/19 11:31*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.50

Lab Sample ID: 580-90996-2
Date Collected: 11/19/19 13:20
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 82.8

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	1.5	J *	5.9	0.99	mg/Kg	☼	12/03/19 11:47	12/12/19 21:30	1
C12-C16 Aromatics	1.1	J *	5.9	0.52	mg/Kg	☼	12/03/19 11:47	12/12/19 21:30	1
C16-C21 Aromatics	ND	*	5.9	0.75	mg/Kg	☼	12/03/19 11:47	12/12/19 21:30	1
C21-C34 Aromatics	ND	*	5.9	1.2	mg/Kg	☼	12/03/19 11:47	12/12/19 21:30	1
C10-C12 Aliphatics	1.7	J	5.9	0.56	mg/Kg	☼	12/03/19 11:47	12/15/19 18:31	1
C12-C16 Aliphatics	2.9	J	5.9	0.52	mg/Kg	☼	12/03/19 11:47	12/15/19 18:31	1
C16-C21 Aliphatics	1.3	J	5.9	0.72	mg/Kg	☼	12/03/19 11:47	12/15/19 18:31	1
C21-C34 Aliphatics	3.3	J	5.9	1.4	mg/Kg	☼	12/03/19 11:47	12/15/19 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*93*		*60 - 140*	*12/03/19 11:47*	*12/15/19 18:31*	*1*
o-Terphenyl	*82*		*60 - 140*	*12/03/19 11:47*	*12/12/19 21:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.8		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	17.2		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-6.00

Date Collected: 11/19/19 14:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-3

Matrix: Solid
Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.2	J	1.7	0.34	ug/Kg	☼	11/21/19 08:20	11/28/19 22:01	1
Toluene	ND		8.7	1.1	ug/Kg	☼	11/21/19 08:20	11/28/19 22:01	1
Ethylbenzene	ND		1.7	0.36	ug/Kg	☼	11/21/19 08:20	11/28/19 22:01	1
m-Xylene & p-Xylene	ND		8.7	1.5	ug/Kg	☼	11/21/19 08:20	11/28/19 22:01	1
o-Xylene	ND		4.4	0.80	ug/Kg	☼	11/21/19 08:20	11/28/19 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:01*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:01*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*	*11/21/19 08:20*	*11/28/19 22:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1400		29	5.8	ug/Kg	☼	12/02/19 10:57	12/03/19 18:07	1
2-Methylnaphthalene	4300		58	10	ug/Kg	☼	12/02/19 10:57	12/03/19 18:07	1
1-Methylnaphthalene	2600		35	5.8	ug/Kg	☼	12/02/19 10:57	12/03/19 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*97*		*60 - 125*	*12/02/19 10:57*	*12/03/19 18:07*	*1*
Phenol-d5 (Surr)	*107*		*59 - 120*	*12/02/19 10:57*	*12/03/19 18:07*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*52 - 125*	*12/02/19 10:57*	*12/03/19 18:07*	*1*
Nitrobenzene-d5 (Surr)	*93*		*62 - 120*	*12/02/19 10:57*	*12/03/19 18:07*	*1*
2-Fluorobiphenyl	*90*		*57 - 120*	*12/02/19 10:57*	*12/03/19 18:07*	*1*
Terphenyl-d14 (Surr)	*97*		*58 - 120*	*12/02/19 10:57*	*12/03/19 18:07*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	3.6	J	9.6	2.4	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
C10-C12 Aromatics	12		9.6	2.6	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
C8-C10 Aliphatics	2.9	J	9.6	2.5	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
C8-C10 Aromatics	2.6	J	9.6	1.7	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
C5-C6 Aliphatics	ND		9.6	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
C6-C8 Aliphatics	ND		9.6	2.4	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1
Total VPH	38	J	67	5.3	mg/Kg	☼	12/03/19 09:11	12/03/19 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*99*		*60 - 140*	*12/03/19 09:11*	*12/03/19 21:33*	*1*
4-Bromofluorobenzene	*93*		*60 - 140*	*12/03/19 09:11*	*12/03/19 21:33*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	3.8	J H	9.6	2.4	mg/Kg	☼	12/03/19 09:11	12/04/19 15:22	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	59		9.6	4.4	mg/Kg	☼	11/27/19 13:38	11/28/19 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*	*11/27/19 13:38*	*11/28/19 11:55*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-6.00

Lab Sample ID: 580-90996-3
Date Collected: 11/19/19 14:00
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 85.9

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	29	J *	57	9.6	mg/Kg	☼	12/03/19 11:47	12/12/19 21:55	1
C12-C16 Aromatics	24	J *	57	5.0	mg/Kg	☼	12/03/19 11:47	12/12/19 21:55	1
C16-C21 Aromatics	ND	*	57	7.3	mg/Kg	☼	12/03/19 11:47	12/12/19 21:55	1
C21-C34 Aromatics	ND	*	57	11	mg/Kg	☼	12/03/19 11:47	12/12/19 21:55	1
C10-C12 Aliphatics	38	J	57	5.5	mg/Kg	☼	12/03/19 11:47	12/15/19 18:54	1
C12-C16 Aliphatics	21	J	57	5.0	mg/Kg	☼	12/03/19 11:47	12/15/19 18:54	1
C16-C21 Aliphatics	ND		57	7.0	mg/Kg	☼	12/03/19 11:47	12/15/19 18:54	1
C21-C34 Aliphatics	16	J	57	14	mg/Kg	☼	12/03/19 11:47	12/15/19 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*92*		*60 - 140*	*12/03/19 11:47*	*12/15/19 18:54*	*1*
o-Terphenyl	*72*		*60 - 140*	*12/03/19 11:47*	*12/12/19 21:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.9		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	14.1		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-4.00

Lab Sample ID: 580-90996-4

Date Collected: 11/19/19 14:30

Matrix: Solid

Date Received: 11/21/19 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.30	ug/Kg		11/21/19 08:20	11/28/19 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:29*	*1*
Trifluorotoluene (Surr)	*100*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:29*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*11/21/19 08:20*	*11/28/19 22:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*	*11/21/19 08:20*	*11/28/19 22:29*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-10

Date Collected: 11/19/19 16:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-5

Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		310	71	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Chloromethane	ND		160	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Vinyl chloride	ND		230	41	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Bromomethane	ND		310	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Chloroethane	ND		620	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Trichlorofluoromethane	ND		310	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1-Dichloroethene	ND		62	19	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Methylene Chloride	ND		390	100	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
trans-1,2-Dichloroethene	ND		93	23	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1-Dichloroethane	ND		62	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
2,2-Dichloropropane	ND		62	19	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
cis-1,2-Dichloroethene	ND		93	20	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Bromochloromethane	ND		62	9.7	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Chloroform	ND		62	6.5	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1,1-Trichloroethane	ND		62	15	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Carbon tetrachloride	ND		31	13	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1-Dichloropropene	ND		62	8.3	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Benzene	**720**		47	5.9	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2-Dichloroethane	ND		31	8.6	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Trichloroethene	ND		93	34	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2-Dichloropropane	ND		31	10	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Dibromomethane	ND		93	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Bromodichloromethane	ND		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
cis-1,3-Dichloropropene	ND		31	6.2	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Toluene	**46**	**J**	230	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
trans-1,3-Dichloropropene	ND		62	11	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1,2-Trichloroethane	ND		31	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Tetrachloroethene	ND		62	8.3	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,3-Dichloropropane	ND		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Dibromochloromethane	ND		62	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2-Dibromoethane	ND		31	5.9	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Chlorobenzene	ND		62	7.5	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Ethylbenzene	**7500**		62	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1,1,2-Tetrachloroethane	ND		62	17	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,1,2,2-Tetrachloroethane	ND		31	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
o-Xylene	**1900**		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Styrene	ND		62	9.5	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Bromoform	ND	*	310	41	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Isopropylbenzene	**1300**		62	13	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Bromobenzene	ND		160	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
N-Propylbenzene	**4200**		62	11	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2,3-Trichloropropane	ND		62	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
2-Chlorotoluene	ND		62	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
4-Chlorotoluene	ND		62	15	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
t-Butylbenzene	ND		62	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
sec-Butylbenzene	ND		62	13	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,3-Dichlorobenzene	ND		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
4-Isopropyltoluene	**330**		62	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,4-Dichlorobenzene	ND		93	17	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-10

Date Collected: 11/19/19 16:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-5
Matrix: Solid
Percent Solids: 88.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		62	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2-Dibromo-3-Chloropropane	ND		390	24	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2,4-Trichlorobenzene	ND		93	24	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
1,2,3-Trichlorobenzene	ND		230	50	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Hexachlorobutadiene	**58**	**J**	230	52	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Naphthalene	**4600**		160	44	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1
Methyl tert-butyl ether	ND		62	9.3	ug/Kg	☼	12/03/19 09:00	12/03/19 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:23*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:23*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:23*	*1*
Trifluorotoluene (Surr)	*118*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*12/03/19 09:00*	*12/03/19 16:23*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**11000**	**H**	3300	250	ug/Kg	☼	12/04/19 09:59	12/04/19 19:43	1
1,3,5-Trimethylbenzene	**5200**	**H**	670	130	ug/Kg	☼	12/04/19 09:59	12/04/19 19:43	1
1,2,4-Trimethylbenzene	**18000**	**H**	670	230	ug/Kg	☼	12/04/19 09:59	12/04/19 19:43	1
n-Butylbenzene	**2400**	**J H**	2500	130	ug/Kg	☼	12/04/19 09:59	12/04/19 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*12/04/19 09:59*	*12/04/19 19:43*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*	*12/04/19 09:59*	*12/04/19 19:43*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*12/04/19 09:59*	*12/04/19 19:43*	*1*
Trifluorotoluene (Surr)	*119*		*80 - 120*	*12/04/19 09:59*	*12/04/19 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*	*12/04/19 09:59*	*12/04/19 19:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**1100**		27	5.3	ug/Kg	☼	12/02/19 10:57	12/03/19 18:31	1
2-Methylnaphthalene	**1800**		53	9.4	ug/Kg	☼	12/02/19 10:57	12/03/19 18:31	1
1-Methylnaphthalene	**840**		32	5.3	ug/Kg	☼	12/02/19 10:57	12/03/19 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*98*		*60 - 125*	*12/02/19 10:57*	*12/03/19 18:31*	*1*
Phenol-d5 (Surr)	*103*		*59 - 120*	*12/02/19 10:57*	*12/03/19 18:31*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*52 - 125*	*12/02/19 10:57*	*12/03/19 18:31*	*1*
Nitrobenzene-d5 (Surr)	*92*		*62 - 120*	*12/02/19 10:57*	*12/03/19 18:31*	*1*
2-Fluorobiphenyl	*96*		*57 - 120*	*12/02/19 10:57*	*12/03/19 18:31*	*1*
Terphenyl-d14 (Surr)	*102*		*58 - 120*	*12/02/19 10:57*	*12/03/19 18:31*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	**32**		7.8	2.0	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1
C10-C12 Aromatics	**100**	**E**	7.8	2.1	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1
C8-C10 Aliphatics	**7.6**	**J**	7.8	2.0	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1
C8-C10 Aromatics	**110**	**E**	7.8	1.3	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1
C5-C6 Aliphatics	**37**		7.8	1.8	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1
C6-C8 Aliphatics	**48**	**E**	7.8	1.9	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-10

Date Collected: 11/19/19 16:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-5

Matrix: Solid
Percent Solids: 88.9

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total VPH	510		55	4.3	mg/Kg	☼	12/03/19 09:11	12/03/19 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*48*	** X*	*60 - 140*	*12/03/19 09:11*	*12/03/19 22:02*	*1*
4-Bromofluorobenzene	*68*	***	*60 - 140*	*12/03/19 09:11*	*12/03/19 22:02*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	19	J H	42	11	mg/Kg	☼	12/03/19 09:11	12/04/19 15:57	1
C10-C12 Aromatics	130	H	42	11	mg/Kg	☼	12/03/19 09:11	12/04/19 15:57	1
C8-C10 Aromatics	80	H	42	7.2	mg/Kg	☼	12/03/19 09:11	12/04/19 15:57	1
C6-C8 Aliphatics	41	J H	42	10	mg/Kg	☼	12/03/19 09:11	12/04/19 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*85*		*60 - 140*	*12/03/19 09:11*	*12/04/19 15:57*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	690		7.8	3.6	mg/Kg	☼	11/27/19 13:38	11/28/19 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*150*		*50 - 150*	*11/27/19 13:38*	*11/28/19 13:32*	*1*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	27	E *	5.6	0.94	mg/Kg	☼	12/03/19 11:47	12/12/19 22:20	1
C12-C16 Aromatics	9.6	*	5.6	0.49	mg/Kg	☼	12/03/19 11:47	12/12/19 22:20	1
C16-C21 Aromatics	ND	*	5.6	0.72	mg/Kg	☼	12/03/19 11:47	12/12/19 22:20	1
C21-C34 Aromatics	9.6	*	5.6	1.1	mg/Kg	☼	12/03/19 11:47	12/12/19 22:20	1
C10-C12 Aliphatics	14		5.6	0.54	mg/Kg	☼	12/03/19 11:47	12/15/19 19:18	1
C12-C16 Aliphatics	7.7		5.6	0.49	mg/Kg	☼	12/03/19 11:47	12/15/19 19:18	1
C16-C21 Aliphatics	7.0		5.6	0.68	mg/Kg	☼	12/03/19 11:47	12/15/19 19:18	1
C21-C34 Aliphatics	53		5.6	1.3	mg/Kg	☼	12/03/19 11:47	12/15/19 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*76*		*60 - 140*	*12/03/19 11:47*	*12/15/19 19:18*	*1*
o-Terphenyl	*72*		*60 - 140*	*12/03/19 11:47*	*12/12/19 22:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.9		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	11.1		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-15

Date Collected: 11/19/19 16:30
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-6

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		400	92	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Chloromethane	ND		200	20	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Vinyl chloride	ND		300	53	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Bromomethane	ND		400	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Chloroethane	ND		810	20	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Trichlorofluoromethane	ND		400	23	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1-Dichloroethene	ND		81	25	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Methylene Chloride	ND		500	130	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
trans-1,2-Dichloroethene	ND		120	29	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1-Dichloroethane	ND		81	19	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
2,2-Dichloropropane	ND		81	24	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
cis-1,2-Dichloroethene	ND		120	25	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Bromochloromethane	ND		81	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Chloroform	ND		81	8.5	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1,1-Trichloroethane	ND		81	19	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Carbon tetrachloride	ND		40	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1-Dichloropropene	ND		81	11	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Benzene	ND		60	7.6	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2-Dichloroethane	ND		40	11	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Trichloroethene	ND		120	44	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2-Dichloropropane	ND		40	13	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Dibromomethane	ND		120	15	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Bromodichloromethane	ND		120	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
cis-1,3-Dichloropropene	ND		40	8.1	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Toluene	ND		300	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
trans-1,3-Dichloropropene	ND		81	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1,2-Trichloroethane	ND		40	15	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Tetrachloroethene	ND		81	11	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,3-Dichloropropane	ND		120	28	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Dibromochloromethane	ND		81	23	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2-Dibromoethane	ND		40	7.6	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Chlorobenzene	ND		81	9.7	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Ethylbenzene	**100**		81	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1,1,2-Tetrachloroethane	ND		81	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,1,2,2-Tetrachloroethane	ND		40	15	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
o-Xylene	**32**	**J**	120	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Styrene	ND		81	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Bromoform	ND	*	400	53	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Isopropylbenzene	**18**	**J**	81	17	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Bromobenzene	ND		200	34	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
N-Propylbenzene	**67**	**J**	81	14	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2,3-Trichloropropane	ND		81	23	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
2-Chlorotoluene	ND		81	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
4-Chlorotoluene	ND		81	20	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
t-Butylbenzene	ND		81	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
sec-Butylbenzene	ND		81	17	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,3-Dichlorobenzene	ND		120	27	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
4-Isopropyltoluene	ND		81	21	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,4-Dichlorobenzene	ND		120	22	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-15

Date Collected: 11/19/19 16:30
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-6

Matrix: Solid
Percent Solids: 81.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	63	J	300	16	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2-Dichlorobenzene	ND		81	18	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2-Dibromo-3-Chloropropane	ND		500	31	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2,4-Trichlorobenzene	ND		120	31	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
1,2,3-Trichlorobenzene	ND		300	65	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Hexachlorobutadiene	ND		300	67	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Naphthalene	140	J	200	57	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1
Methyl tert-butyl ether	ND		81	12	ug/Kg	☼	12/03/19 09:00	12/03/19 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:48*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:48*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:48*	*1*
Trifluorotoluene (Surr)	*114*		*80 - 120*	*12/03/19 09:00*	*12/03/19 16:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*	*12/03/19 09:00*	*12/03/19 16:48*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	150	J H	400	30	ug/Kg	☼	12/04/19 09:59	12/04/19 20:08	1
1,3,5-Trimethylbenzene	42	J H	81	15	ug/Kg	☼	12/04/19 09:59	12/04/19 20:08	1
1,2,4-Trimethylbenzene	160	H	81	27	ug/Kg	☼	12/04/19 09:59	12/04/19 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:08*	*1*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:08*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:08*	*1*
Trifluorotoluene (Surr)	*121*	*X*	*80 - 120*	*12/04/19 09:59*	*12/04/19 20:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 121*	*12/04/19 09:59*	*12/04/19 20:08*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	12		10	4.6	mg/Kg	☼	11/27/19 13:38	11/28/19 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*50 - 150*	*11/27/19 13:38*	*11/28/19 12:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.7		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	18.3		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-6.00

Date Collected: 11/19/19 15:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-7

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		470	110	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Chloromethane	ND		230	23	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Vinyl chloride	ND		350	61	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Bromomethane	ND		470	31	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Chloroethane	ND		930	23	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Trichlorofluoromethane	ND		470	27	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1-Dichloroethene	ND		93	29	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Methylene Chloride	ND		580	150	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
trans-1,2-Dichloroethene	ND		140	34	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1-Dichloroethane	ND		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
2,2-Dichloropropane	ND		93	28	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
cis-1,2-Dichloroethene	ND		140	29	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Bromochloromethane	ND		93	14	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Chloroform	ND		93	9.8	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1,1-Trichloroethane	ND		93	22	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Carbon tetrachloride	ND		47	19	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1-Dichloropropene	ND		93	12	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Benzene	**370**		70	8.8	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2-Dichloroethane	ND		47	13	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Trichloroethene	ND		140	51	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2-Dichloropropane	ND		47	15	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Dibromomethane	ND		140	17	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Bromodichloromethane	ND		140	31	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
cis-1,3-Dichloropropene	ND		47	9.3	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Toluene	**110**	**J**	350	31	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
trans-1,3-Dichloropropene	ND		93	16	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1,2-Trichloroethane	ND		47	17	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Tetrachloroethene	ND		93	12	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,3-Dichloropropane	ND		140	32	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Dibromochloromethane	ND		93	26	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2-Dibromoethane	ND		47	8.8	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Chlorobenzene	ND		93	11	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Ethylbenzene	**13000**		93	21	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1,1,2-Tetrachloroethane	ND		93	25	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,1,2,2-Tetrachloroethane	ND		47	18	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
m-Xylene & p-Xylene	**4000**		470	35	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
o-Xylene	**810**		140	31	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Styrene	ND		93	14	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Bromoform	ND	*	470	61	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Isopropylbenzene	**2500**		93	20	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Bromobenzene	ND		230	40	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
N-Propylbenzene	**9400**		93	16	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2,3-Trichloropropane	ND		93	27	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
2-Chlorotoluene	ND		93	20	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
4-Chlorotoluene	ND		93	23	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
t-Butylbenzene	ND		93	18	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,3-Dichlorobenzene	ND		140	31	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
4-Isopropyltoluene	**170**		93	24	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,4-Dichlorobenzene	ND		140	25	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-6.00

Date Collected: 11/19/19 15:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-7

Matrix: Solid
Percent Solids: 77.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		93	20	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2-Dibromo-3-Chloropropane	ND		580	35	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2,4-Trichlorobenzene	ND		140	36	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
1,2,3-Trichlorobenzene	ND		350	75	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Hexachlorobutadiene	ND		350	78	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1
Methyl tert-butyl ether	ND		93	14	ug/Kg	☼	12/03/19 09:00	12/03/19 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*12/03/19 09:00*	*12/03/19 17:14*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*12/03/19 09:00*	*12/03/19 17:14*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*	*12/03/19 09:00*	*12/03/19 17:14*	*1*
Trifluorotoluene (Surr)	*115*		*80 - 120*	*12/03/19 09:00*	*12/03/19 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*	*12/03/19 09:00*	*12/03/19 17:14*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**1900**	**H**	1000	190	ug/Kg	☼	12/04/19 09:59	12/04/19 20:34	1
1,2,4-Trimethylbenzene	**14000**	**H**	1000	340	ug/Kg	☼	12/04/19 09:59	12/04/19 20:34	1
sec-Butylbenzene	**860**	**J H**	1000	220	ug/Kg	☼	12/04/19 09:59	12/04/19 20:34	1
n-Butylbenzene	**2900**	**J H**	3800	200	ug/Kg	☼	12/04/19 09:59	12/04/19 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*118*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:34*	*1*
4-Bromofluorobenzene (Surr)	*120*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:34*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:34*	*1*
Trifluorotoluene (Surr)	*113*		*80 - 120*	*12/04/19 09:59*	*12/04/19 20:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*12/04/19 09:59*	*12/04/19 20:34*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**9000**	**H**	2500	710	ug/Kg	☼	12/09/19 09:00	12/09/19 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*	*12/09/19 09:00*	*12/09/19 13:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*12/09/19 09:00*	*12/09/19 13:39*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*12/09/19 09:00*	*12/09/19 13:39*	*1*
Trifluorotoluene (Surr)	*114*		*80 - 120*	*12/09/19 09:00*	*12/09/19 13:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*12/09/19 09:00*	*12/09/19 13:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**4100**		59	10	ug/Kg	☼	12/02/19 10:57	12/03/19 18:54	1
1-Methylnaphthalene	**2000**		35	5.9	ug/Kg	☼	12/02/19 10:57	12/03/19 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*99*		*60 - 125*	*12/02/19 10:57*	*12/03/19 18:54*	*1*
Phenol-d5 (Surr)	*103*		*59 - 120*	*12/02/19 10:57*	*12/03/19 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 125*	*12/02/19 10:57*	*12/03/19 18:54*	*1*
Nitrobenzene-d5 (Surr)	*94*		*62 - 120*	*12/02/19 10:57*	*12/03/19 18:54*	*1*
2-Fluorobiphenyl	*88*		*57 - 120*	*12/02/19 10:57*	*12/03/19 18:54*	*1*
Terphenyl-d14 (Surr)	*100*		*58 - 120*	*12/02/19 10:57*	*12/03/19 18:54*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-6.00

Date Collected: 11/19/19 15:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-7

Matrix: Solid
Percent Solids: 77.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	6400		1500	290	ug/Kg	☼	12/02/19 10:57	12/05/19 00:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*80*		*60 - 125*	*12/02/19 10:57*	*12/05/19 00:18*	*50*
Phenol-d5 (Surr)	*70*		*59 - 120*	*12/02/19 10:57*	*12/05/19 00:18*	*50*
Nitrobenzene-d5 (Surr)	*70*		*62 - 120*	*12/02/19 10:57*	*12/05/19 00:18*	*50*
2-Fluorobiphenyl	*84*		*57 - 120*	*12/02/19 10:57*	*12/05/19 00:18*	*50*
Terphenyl-d14 (Surr)	*114*		*58 - 120*	*12/02/19 10:57*	*12/05/19 00:18*	*50*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	38		12	2.9	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
C10-C12 Aromatics	120	E	12	3.1	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
C8-C10 Aliphatics	39		12	3.0	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
C8-C10 Aromatics	70		12	2.0	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
C5-C6 Aliphatics	ND		12	2.7	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
C6-C8 Aliphatics	19		12	2.9	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1
Total VPH	430		81	6.4	mg/Kg	☼	12/03/19 09:11	12/03/19 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*80*		*60 - 140*	*12/03/19 09:11*	*12/03/19 22:31*	*1*
4-Bromofluorobenzene	*70*	*	*60 - 140*	*12/03/19 09:11*	*12/03/19 22:31*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	33	H	25	6.3	mg/Kg	☼	12/03/19 09:11	12/04/19 16:26	1

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	130	H	130	34	mg/Kg	☼	12/09/19 09:24	12/10/19 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*101*		*60 - 140*	*12/09/19 09:24*	*12/10/19 01:48*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	650		63	29	mg/Kg	☼	11/27/19 13:38	11/28/19 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*50 - 150*	*11/27/19 13:38*	*11/28/19 13:56*	*1*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	33	E *	6.3	1.1	mg/Kg	☼	12/03/19 11:47	12/12/19 22:45	1
C12-C16 Aromatics	14	*	6.3	0.56	mg/Kg	☼	12/03/19 11:47	12/12/19 22:45	1
C16-C21 Aromatics	1.3	J *	6.3	0.81	mg/Kg	☼	12/03/19 11:47	12/12/19 22:45	1
C21-C34 Aromatics	2.1	J *	6.3	1.3	mg/Kg	☼	12/03/19 11:47	12/12/19 22:45	1
C10-C12 Aliphatics	37	E	6.3	0.61	mg/Kg	☼	12/03/19 11:47	12/15/19 19:42	1
C12-C16 Aliphatics	16		6.3	0.56	mg/Kg	☼	12/03/19 11:47	12/15/19 19:42	1
C16-C21 Aliphatics	4.2	J	6.3	0.77	mg/Kg	☼	12/03/19 11:47	12/15/19 19:42	1
C21-C34 Aliphatics	21		6.3	1.5	mg/Kg	☼	12/03/19 11:47	12/15/19 19:42	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-6.00

Lab Sample ID: 580-90996-7

Date Collected: 11/19/19 15:20
Date Received: 11/21/19 08:00

Matrix: Solid
Percent Solids: 77.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*144*	*X*	*60 - 140*	*12/03/19 11:47*	*12/15/19 19:42*	*1*
o-Terphenyl	*80*		*60 - 140*	*12/03/19 11:47*	*12/12/19 22:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**77.7**		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	**22.3**		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-5.00

Date Collected: 11/19/19 16:10
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-8

Matrix: Solid
Percent Solids: 89.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.68**	**J**	1.5	0.30	ug/Kg	☼	11/21/19 08:20	11/29/19 00:20	1
Toluene	ND		7.6	0.99	ug/Kg	☼	11/21/19 08:20	11/29/19 00:20	1
Ethylbenzene	**3.3**		1.5	0.31	ug/Kg	☼	11/21/19 08:20	11/29/19 00:20	1
m-Xylene & p-Xylene	ND		7.6	1.3	ug/Kg	☼	11/21/19 08:20	11/29/19 00:20	1
o-Xylene	ND		3.8	0.70	ug/Kg	☼	11/21/19 08:20	11/29/19 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:20*	*1*
Trifluorotoluene (Surr)	*98*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:20*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 121*	*11/21/19 08:20*	*11/29/19 00:20*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**18**	**J**	26	5.3	ug/Kg	☼	12/02/19 10:57	12/03/19 19:17	1
2-Methylnaphthalene	**59**		53	9.3	ug/Kg	☼	12/02/19 10:57	12/03/19 19:17	1
1-Methylnaphthalene	**62**		32	5.3	ug/Kg	☼	12/02/19 10:57	12/03/19 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*99*		*60 - 125*	*12/02/19 10:57*	*12/03/19 19:17*	*1*
Phenol-d5 (Surr)	*100*		*59 - 120*	*12/02/19 10:57*	*12/03/19 19:17*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*52 - 125*	*12/02/19 10:57*	*12/03/19 19:17*	*1*
Nitrobenzene-d5 (Surr)	*95*		*62 - 120*	*12/02/19 10:57*	*12/03/19 19:17*	*1*
2-Fluorobiphenyl	*94*		*57 - 120*	*12/02/19 10:57*	*12/03/19 19:17*	*1*
Terphenyl-d14 (Surr)	*106*		*58 - 120*	*12/02/19 10:57*	*12/03/19 19:17*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		8.9	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
C10-C12 Aromatics	**3.7**	**J**	8.9	2.4	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
C8-C10 Aliphatics	ND		8.9	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
C8-C10 Aromatics	**1.9**	**J**	8.9	1.5	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
C5-C6 Aliphatics	ND		8.9	2.1	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
C6-C8 Aliphatics	ND		8.9	2.2	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1
Total VPH	**15**	**J**	62	4.9	mg/Kg	☼	12/03/19 09:11	12/03/19 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*97*		*60 - 140*	*12/03/19 09:11*	*12/03/19 23:00*	*1*
4-Bromofluorobenzene	*93*		*60 - 140*	*12/03/19 09:11*	*12/03/19 23:00*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND	H	8.9	2.2	mg/Kg	☼	12/03/19 09:11	12/04/19 16:55	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**10**		8.9	4.1	mg/Kg	☼	11/27/19 13:38	11/28/19 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*	*11/27/19 13:38*	*11/28/19 12:43*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-5.00

Lab Sample ID: 580-90996-8
Date Collected: 11/19/19 16:10
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 89.7

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND	*	5.5	0.92	mg/Kg	☼	12/03/19 11:47	12/12/19 23:10	1
C12-C16 Aromatics	**1.7**	**J ***	5.5	0.48	mg/Kg	☼	12/03/19 11:47	12/12/19 23:10	1
C16-C21 Aromatics	ND	*	5.5	0.70	mg/Kg	☼	12/03/19 11:47	12/12/19 23:10	1
C21-C34 Aromatics	**3.0**	**J ***	5.5	1.1	mg/Kg	☼	12/03/19 11:47	12/12/19 23:10	1
C10-C12 Aliphatics	ND		5.5	0.52	mg/Kg	☼	12/03/19 11:47	12/15/19 20:05	1
C12-C16 Aliphatics	**0.87**	**J**	5.5	0.48	mg/Kg	☼	12/03/19 11:47	12/15/19 20:05	1
C16-C21 Aliphatics	**1.1**	**J**	5.5	0.67	mg/Kg	☼	12/03/19 11:47	12/15/19 20:05	1
C21-C34 Aliphatics	**14**		5.5	1.3	mg/Kg	☼	12/03/19 11:47	12/15/19 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*96*		*60 - 140*	*12/03/19 11:47*	*12/15/19 20:05*	*1*
o-Terphenyl	*84*		*60 - 140*	*12/03/19 11:47*	*12/12/19 23:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.7**		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	**10.3**		0.1	0.1	%			12/03/19 11:12	1

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 11-5.5

Date Collected: 11/19/19 16:30
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-9
Matrix: Solid
Percent Solids: 89.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.7	0.32	ug/Kg	☼	11/21/19 08:20	11/29/19 00:48	1
Toluene	ND		8.3	1.1	ug/Kg	☼	11/21/19 08:20	11/29/19 00:48	1
Ethylbenzene	**0.72**	**J**	1.7	0.34	ug/Kg	☼	11/21/19 08:20	11/29/19 00:48	1
m-Xylene & p-Xylene	ND		8.3	1.4	ug/Kg	☼	11/21/19 08:20	11/29/19 00:48	1
o-Xylene	ND		4.1	0.76	ug/Kg	☼	11/21/19 08:20	11/29/19 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:48*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:48*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:48*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*11/21/19 08:20*	*11/29/19 00:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 121*	*11/21/19 08:20*	*11/29/19 00:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		27	5.4	ug/Kg	☼	12/02/19 10:57	12/03/19 19:41	1
2-Methylnaphthalene	**9.7**	**J**	54	9.6	ug/Kg	☼	12/02/19 10:57	12/03/19 19:41	1
1-Methylnaphthalene	ND		33	5.4	ug/Kg	☼	12/02/19 10:57	12/03/19 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*91*		*60 - 125*	*12/02/19 10:57*	*12/03/19 19:41*	*1*
Phenol-d5 (Surr)	*91*		*59 - 120*	*12/02/19 10:57*	*12/03/19 19:41*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*52 - 125*	*12/02/19 10:57*	*12/03/19 19:41*	*1*
Nitrobenzene-d5 (Surr)	*87*		*62 - 120*	*12/02/19 10:57*	*12/03/19 19:41*	*1*
2-Fluorobiphenyl	*87*		*57 - 120*	*12/02/19 10:57*	*12/03/19 19:41*	*1*
Terphenyl-d14 (Surr)	*101*		*58 - 120*	*12/02/19 10:57*	*12/03/19 19:41*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
C10-C12 Aromatics	ND		9.1	2.5	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
C8-C10 Aliphatics	ND		9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
C8-C10 Aromatics	ND		9.1	1.6	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
C5-C6 Aliphatics	ND		9.1	2.1	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
C6-C8 Aliphatics	ND		9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1
Total VPH	**5.8**	**J**	64	5.0	mg/Kg	☼	12/03/19 09:11	12/03/19 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*101*		*60 - 140*	*12/03/19 09:11*	*12/03/19 23:28*	*1*
4-Bromofluorobenzene	*98*		*60 - 140*	*12/03/19 09:11*	*12/03/19 23:28*	*1*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND	H	9.1	2.3	mg/Kg	☼	12/03/19 09:11	12/04/19 17:24	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	**4.3**	**J**	9.1	4.2	mg/Kg	☼	11/27/19 13:38	11/28/19 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*	*11/27/19 13:38*	*11/28/19 13:08*	*1*

Client Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 11-5.5

Lab Sample ID: 580-90996-9

Date Collected: 11/19/19 16:30
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 89.4

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND	*	56	9.3	mg/Kg	☼	12/03/19 11:47	12/13/19 00:00	1
C12-C16 Aromatics	ND	*	56	4.9	mg/Kg	☼	12/03/19 11:47	12/13/19 00:00	1
C16-C21 Aromatics	ND	F1 *	56	7.1	mg/Kg	☼	12/03/19 11:47	12/13/19 00:00	1
C21-C34 Aromatics	ND	F1 *	56	11	mg/Kg	☼	12/03/19 11:47	12/13/19 00:00	1
C10-C12 Aliphatics	ND		56	5.3	mg/Kg	☼	12/03/19 11:47	12/16/19 11:09	1
C12-C16 Aliphatics	ND		56	4.9	mg/Kg	☼	12/03/19 11:47	12/16/19 11:09	1
C16-C21 Aliphatics	ND		56	6.8	mg/Kg	☼	12/03/19 11:47	12/16/19 11:09	1
C21-C34 Aliphatics	**31**	**J F1**	56	13	mg/Kg	☼	12/03/19 11:47	12/16/19 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*154*	*X*	*60 - 140*	*12/03/19 11:47*	*12/16/19 11:09*	*1*
o-Terphenyl	*87*		*60 - 140*	*12/03/19 11:47*	*12/13/19 00:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**89.4**		0.1	0.1	%			12/03/19 11:12	1
Percent Moisture	**10.6**		0.1	0.1	%			12/03/19 11:12	1

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

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

Lab Sample ID: MB 580-317885/1-A
Matrix: Solid
Analysis Batch: 317881

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317885

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		11/28/19 11:19	11/28/19 15:31	1
Toluene	ND		10	1.3	ug/Kg		11/28/19 11:19	11/28/19 15:31	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		11/28/19 11:19	11/28/19 15:31	1
m-Xylene & p-Xylene	ND		10	1.7	ug/Kg		11/28/19 11:19	11/28/19 15:31	1
o-Xylene	ND		5.0	0.92	ug/Kg		11/28/19 11:19	11/28/19 15:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*	*11/28/19 11:19*	*11/28/19 15:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*	*11/28/19 11:19*	*11/28/19 15:31*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*	*11/28/19 11:19*	*11/28/19 15:31*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 120*	*11/28/19 11:19*	*11/28/19 15:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 121*	*11/28/19 11:19*	*11/28/19 15:31*	*1*

Lab Sample ID: LCS 580-317885/2-A
Matrix: Solid
Analysis Batch: 317881

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317885

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.5		ug/Kg		107	72 - 135
Toluene	20.0	20.6		ug/Kg		103	75 - 137
Ethylbenzene	20.0	21.4		ug/Kg		107	80 - 135
m-Xylene & p-Xylene	20.0	21.5		ug/Kg		108	80 - 132
o-Xylene	20.0	21.7		ug/Kg		109	80 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 121*

Lab Sample ID: LCSD 580-317885/3-A
Matrix: Solid
Analysis Batch: 317881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317885

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	21.1		ug/Kg		105	72 - 135	2	15
Toluene	20.0	20.2		ug/Kg		101	75 - 137	2	20
Ethylbenzene	20.0	21.3		ug/Kg		107	80 - 135	0	16
m-Xylene & p-Xylene	20.0	21.6		ug/Kg		108	80 - 132	0	20
o-Xylene	20.0	22.0		ug/Kg		110	80 - 125	1	14

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCSD 580-317885/3-A
Matrix: Solid
Analysis Batch: 317881

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317885

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 121*

Lab Sample ID: MB 580-318157/1-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		200	46	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Chloromethane	ND		100	10	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Vinyl chloride	ND		150	26	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Bromomethane	ND		200	13	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Chloroethane	ND		400	10	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Trichlorofluoromethane	ND		200	11	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1-Dichloroethene	ND		40	12	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Methylene Chloride	ND		250	65	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
trans-1,2-Dichloroethene	ND		60	15	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1-Dichloroethane	ND		40	9.2	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
2,2-Dichloropropane	ND		40	12	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
cis-1,2-Dichloroethene	ND		60	13	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Bromochloromethane	ND		40	6.2	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Chloroform	ND		40	4.2	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1,1-Trichloroethane	ND		40	9.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Carbon tetrachloride	ND		20	8.1	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1-Dichloropropene	ND		40	5.3	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Benzene	ND		30	3.8	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2-Dichloroethane	ND		20	5.5	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Trichloroethene	ND		60	22	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2-Dichloropropane	ND		20	6.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Dibromomethane	ND		60	7.4	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Bromodichloromethane	ND		60	13	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
cis-1,3-Dichloropropene	ND		20	4.0	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Toluene	ND		150	14	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
trans-1,3-Dichloropropene	ND		40	7.0	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1,2-Trichloroethane	ND		20	7.4	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Tetrachloroethene	ND		40	5.3	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,3-Dichloropropane	ND		60	14	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Dibromochloromethane	ND		40	11	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2-Dibromoethane	ND		20	3.8	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Chlorobenzene	ND		40	4.8	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Ethylbenzene	ND		40	9.1	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1,1,2-Tetrachloroethane	ND		40	11	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,1,2,2-Tetrachloroethane	ND		20	7.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
m-Xylene & p-Xylene	ND		200	15	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
o-Xylene	ND		60	13	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Styrene	ND		40	6.1	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Bromoform	ND		200	26	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Isopropylbenzene	ND		40	8.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Bromobenzene	ND		100	17	ug/Kg		12/03/19 09:00	12/03/19 15:07	1

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

Lab Sample ID: MB 580-318157/1-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318157

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		40	6.9	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2,3-Trichloropropane	ND		40	12	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
2-Chlorotoluene	ND		40	8.8	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,3,5-Trimethylbenzene	ND		40	7.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
4-Chlorotoluene	ND		40	9.8	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
t-Butylbenzene	ND		40	7.7	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2,4-Trimethylbenzene	ND		40	14	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
sec-Butylbenzene	ND		40	8.6	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,3-Dichlorobenzene	ND		60	13	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
4-Isopropyltoluene	ND		40	10	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,4-Dichlorobenzene	ND		60	11	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
n-Butylbenzene	ND		150	8.0	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2-Dichlorobenzene	ND		40	8.7	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2-Dibromo-3-Chloropropane	ND		250	15	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2,4-Trichlorobenzene	ND		60	15	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
1,2,3-Trichlorobenzene	ND		150	32	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Hexachlorobutadiene	ND		150	33	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Naphthalene	ND		100	28	ug/Kg		12/03/19 09:00	12/03/19 15:07	1
Methyl tert-butyl ether	ND		40	6.0	ug/Kg		12/03/19 09:00	12/03/19 15:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*12/03/19 09:00*	*12/03/19 15:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*12/03/19 09:00*	*12/03/19 15:07*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*	*12/03/19 09:00*	*12/03/19 15:07*	*1*
Trifluorotoluene (Surr)	*120*		*80 - 120*	*12/03/19 09:00*	*12/03/19 15:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*12/03/19 09:00*	*12/03/19 15:07*	*1*

Lab Sample ID: LCS 580-318157/2-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	800	787		ug/Kg		98	10 - 150
Chloromethane	800	893		ug/Kg		112	43 - 150
Vinyl chloride	800	945		ug/Kg		118	13 - 150
Bromomethane	800	948		ug/Kg		118	42 - 150
Chloroethane	800	874		ug/Kg		109	31 - 150
Trichlorofluoromethane	800	1000		ug/Kg		125	48 - 150
1,1-Dichloroethene	800	970		ug/Kg		121	58 - 150
Methylene Chloride	800	884		ug/Kg		111	54 - 149
trans-1,2-Dichloroethene	800	853		ug/Kg		107	61 - 150
1,1-Dichloroethane	800	827		ug/Kg		103	70 - 135
2,2-Dichloropropane	800	994		ug/Kg		124	62 - 150
cis-1,2-Dichloroethene	800	891		ug/Kg		111	68 - 143
Bromochloromethane	800	926		ug/Kg		116	76 - 131
Chloroform	800	835		ug/Kg		104	74 - 133
1,1,1-Trichloroethane	800	911		ug/Kg		114	69 - 150
Carbon tetrachloride	800	1000		ug/Kg		125	66 - 150

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

Lab Sample ID: LCS 580-318157/2-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318157

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	800	814		ug/Kg		102	69 - 150
Benzene	800	842		ug/Kg		105	72 - 135
1,2-Dichloroethane	800	818		ug/Kg		102	68 - 132
Trichloroethene	800	901		ug/Kg		113	69 - 144
1,2-Dichloropropane	800	756		ug/Kg		95	65 - 136
Dibromomethane	800	792		ug/Kg		99	72 - 130
Bromodichloromethane	800	782		ug/Kg		98	73 - 125
cis-1,3-Dichloropropene	800	798		ug/Kg		100	80 - 122
Toluene	800	928		ug/Kg		116	75 - 137
trans-1,3-Dichloropropene	800	806		ug/Kg		101	80 - 121
1,1,2-Trichloroethane	800	848		ug/Kg		106	80 - 123
Tetrachloroethene	800	1100		ug/Kg		138	71 - 145
1,3-Dichloropropane	800	839		ug/Kg		105	75 - 120
Dibromochloromethane	800	946		ug/Kg		118	75 - 125
1,2-Dibromoethane	800	866		ug/Kg		108	77 - 123
Chlorobenzene	800	866		ug/Kg		108	80 - 123
Ethylbenzene	800	861		ug/Kg		108	80 - 135
1,1,1,2-Tetrachloroethane	800	929		ug/Kg		116	79 - 128
1,1,2,2-Tetrachloroethane	800	810		ug/Kg		101	66 - 127
m-Xylene & p-Xylene	800	883		ug/Kg		110	80 - 132
o-Xylene	800	855		ug/Kg		107	80 - 125
Styrene	800	837		ug/Kg		105	79 - 129
Bromoform	800	1100	*	ug/Kg		137	71 - 129
Isopropylbenzene	800	905		ug/Kg		113	74 - 140
Bromobenzene	800	857		ug/Kg		107	78 - 126
N-Propylbenzene	800	766		ug/Kg		96	74 - 143
1,2,3-Trichloropropane	800	731		ug/Kg		91	70 - 127
2-Chlorotoluene	800	783		ug/Kg		98	77 - 127
1,3,5-Trimethylbenzene	800	752		ug/Kg		94	72 - 136
4-Chlorotoluene	800	708		ug/Kg		89	78 - 126
t-Butylbenzene	800	763		ug/Kg		95	72 - 144
1,2,4-Trimethylbenzene	800	710		ug/Kg		89	73 - 127
sec-Butylbenzene	800	734		ug/Kg		92	77 - 143
1,3-Dichlorobenzene	800	803		ug/Kg		100	78 - 122
4-Isopropyltoluene	800	732		ug/Kg		92	71 - 142
1,4-Dichlorobenzene	800	783		ug/Kg		98	77 - 123
n-Butylbenzene	800	686		ug/Kg		86	69 - 143
1,2-Dichlorobenzene	800	786		ug/Kg		98	78 - 126
1,2-Dibromo-3-Chloropropane	800	751		ug/Kg		94	62 - 135
1,2,4-Trichlorobenzene	800	852		ug/Kg		106	68 - 131
1,2,3-Trichlorobenzene	800	767		ug/Kg		96	62 - 136
Hexachlorobutadiene	800	973		ug/Kg		122	65 - 150
Naphthalene	800	631		ug/Kg		79	49 - 147
Methyl tert-butyl ether	800	819		ug/Kg		102	68 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

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

Lab Sample ID: LCS 580-318157/2-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318157

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 120
Trifluorotoluene (Surr)	113		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		80 - 121

Lab Sample ID: LCSD 580-318157/3-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	800	849		ug/Kg		106	10 - 150	8	40
Chloromethane	800	958		ug/Kg		120	43 - 150	7	26
Vinyl chloride	800	953		ug/Kg		119	13 - 150	1	40
Bromomethane	800	972		ug/Kg		121	42 - 150	3	22
Chloroethane	800	890		ug/Kg		111	31 - 150	2	31
Trichlorofluoromethane	800	1070		ug/Kg		134	48 - 150	7	40
1,1-Dichloroethene	800	990		ug/Kg		124	58 - 150	2	29
Methylene Chloride	800	919		ug/Kg		115	54 - 149	4	30
trans-1,2-Dichloroethene	800	864		ug/Kg		108	61 - 150	1	22
1,1-Dichloroethane	800	841		ug/Kg		105	70 - 135	2	21
2,2-Dichloropropane	800	900		ug/Kg		113	62 - 150	10	20
cis-1,2-Dichloroethene	800	922		ug/Kg		115	68 - 143	3	20
Bromochloromethane	800	962		ug/Kg		120	76 - 131	4	15
Chloroform	800	861		ug/Kg		108	74 - 133	3	13
1,1,1-Trichloroethane	800	972		ug/Kg		121	69 - 150	6	14
Carbon tetrachloride	800	999		ug/Kg		125	66 - 150	0	12
1,1-Dichloropropene	800	889		ug/Kg		111	69 - 150	9	11
Benzene	800	827		ug/Kg		103	72 - 135	2	15
1,2-Dichloroethane	800	882		ug/Kg		110	68 - 132	8	17
Trichloroethene	800	979		ug/Kg		122	69 - 144	8	21
1,2-Dichloropropane	800	841		ug/Kg		105	65 - 136	11	13
Dibromomethane	800	873		ug/Kg		109	72 - 130	10	14
Bromodichloromethane	800	872		ug/Kg		109	73 - 125	11	15
cis-1,3-Dichloropropene	800	838		ug/Kg		105	80 - 122	5	16
Toluene	800	951		ug/Kg		119	75 - 137	3	20
trans-1,3-Dichloropropene	800	853		ug/Kg		107	80 - 121	6	21
1,1,2-Trichloroethane	800	890		ug/Kg		111	80 - 123	5	20
Tetrachloroethene	800	1150		ug/Kg		144	71 - 145	4	16
1,3-Dichloropropane	800	878		ug/Kg		110	75 - 120	5	18
Dibromochloromethane	800	994		ug/Kg		124	75 - 125	5	18
1,2-Dibromoethane	800	936		ug/Kg		117	77 - 123	8	20
Chlorobenzene	800	900		ug/Kg		112	80 - 123	4	18
Ethylbenzene	800	889		ug/Kg		111	80 - 135	3	16
1,1,1,2-Tetrachloroethane	800	966		ug/Kg		121	79 - 128	4	17
1,1,2,2-Tetrachloroethane	800	860		ug/Kg		107	66 - 127	6	18
m-Xylene & p-Xylene	800	916		ug/Kg		114	80 - 132	4	20
o-Xylene	800	896		ug/Kg		112	80 - 125	5	14
Styrene	800	872		ug/Kg		109	79 - 129	4	15
Bromoform	800	1140	*	ug/Kg		143	71 - 129	4	17

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

Lab Sample ID: LCSD 580-318157/3-A
Matrix: Solid
Analysis Batch: 318158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318157

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	800	946		ug/Kg		118	74 - 140	4	17
Bromobenzene	800	890		ug/Kg		111	78 - 126	4	19
N-Propylbenzene	800	811		ug/Kg		101	74 - 143	6	21
1,2,3-Trichloropropane	800	772		ug/Kg		97	70 - 127	6	16
2-Chlorotoluene	800	821		ug/Kg		103	77 - 127	5	16
1,3,5-Trimethylbenzene	800	775		ug/Kg		97	72 - 136	3	21
4-Chlorotoluene	800	743		ug/Kg		93	78 - 126	5	16
t-Butylbenzene	800	783		ug/Kg		98	72 - 144	3	24
1,2,4-Trimethylbenzene	800	752		ug/Kg		94	73 - 127	6	20
sec-Butylbenzene	800	783		ug/Kg		98	77 - 143	6	24
1,3-Dichlorobenzene	800	828		ug/Kg		104	78 - 122	3	20
4-Isopropyltoluene	800	781		ug/Kg		98	71 - 142	6	23
1,4-Dichlorobenzene	800	830		ug/Kg		104	77 - 123	6	20
n-Butylbenzene	800	715		ug/Kg		89	69 - 143	4	26
1,2-Dichlorobenzene	800	827		ug/Kg		103	78 - 126	5	21
1,2-Dibromo-3-Chloropropane	800	825		ug/Kg		103	62 - 135	9	25
1,2,4-Trichlorobenzene	800	935		ug/Kg		117	68 - 131	9	29
1,2,3-Trichlorobenzene	800	851		ug/Kg		106	62 - 136	10	34
Hexachlorobutadiene	800	1060		ug/Kg		132	65 - 150	8	36
Naphthalene	800	706		ug/Kg		88	49 - 147	11	35
Methyl tert-butyl ether	800	839		ug/Kg		105	68 - 132	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Trifluorotoluene (Surr)	*116*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 121*

Lab Sample ID: MB 580-318269/1-A
Matrix: Solid
Analysis Batch: 318323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		200	15	ug/Kg		12/04/19 09:59	12/04/19 17:35	1
1,3,5-Trimethylbenzene	ND		40	7.6	ug/Kg		12/04/19 09:59	12/04/19 17:35	1
1,2,4-Trimethylbenzene	ND		40	14	ug/Kg		12/04/19 09:59	12/04/19 17:35	1
sec-Butylbenzene	ND		40	8.6	ug/Kg		12/04/19 09:59	12/04/19 17:35	1
n-Butylbenzene	ND		150	8.0	ug/Kg		12/04/19 09:59	12/04/19 17:35	1
Naphthalene	ND		100	28	ug/Kg		12/04/19 09:59	12/04/19 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 120*	*12/04/19 09:59*	*12/04/19 17:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*12/04/19 09:59*	*12/04/19 17:35*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*	*12/04/19 09:59*	*12/04/19 17:35*	*1*
Trifluorotoluene (Surr)	*127*	*X*	*80 - 120*	*12/04/19 09:59*	*12/04/19 17:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 121*	*12/04/19 09:59*	*12/04/19 17:35*	*1*

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

Lab Sample ID: LCS 580-318269/2-A
Matrix: Solid
Analysis Batch: 318323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	800	885		ug/Kg		111	80 - 132
1,3,5-Trimethylbenzene	800	683		ug/Kg		85	72 - 136
1,2,4-Trimethylbenzene	800	697		ug/Kg		87	73 - 127
sec-Butylbenzene	800	732		ug/Kg		91	77 - 143
n-Butylbenzene	800	714		ug/Kg		89	69 - 143
Naphthalene	800	619		ug/Kg		77	49 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*80 - 120*
Trifluorotoluene (Surr)	*116*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*80 - 121*

Lab Sample ID: LCSD 580-318269/3-A
Matrix: Solid
Analysis Batch: 318323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	800	899		ug/Kg		112	80 - 132	1	20
1,3,5-Trimethylbenzene	800	746		ug/Kg		93	72 - 136	9	21
1,2,4-Trimethylbenzene	800	731		ug/Kg		91	73 - 127	5	20
sec-Butylbenzene	800	754		ug/Kg		94	77 - 143	3	24
n-Butylbenzene	800	707		ug/Kg		88	69 - 143	1	26
Naphthalene	800	589		ug/Kg		74	49 - 147	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Trifluorotoluene (Surr)	*114*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*

Lab Sample ID: MB 580-318512/1-A
Matrix: Solid
Analysis Batch: 318526

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318512

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		100	28	ug/Kg		12/09/19 09:00	12/09/19 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*	*12/09/19 09:00*	*12/09/19 11:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*12/09/19 09:00*	*12/09/19 11:57*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*	*12/09/19 09:00*	*12/09/19 11:57*	*1*
Trifluorotoluene (Surr)	*111*		*80 - 120*	*12/09/19 09:00*	*12/09/19 11:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 121*	*12/09/19 09:00*	*12/09/19 11:57*	*1*

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

Lab Sample ID: LCS 580-318512/2-A
Matrix: Solid
Analysis Batch: 318526

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	800	670		ug/Kg		84	49 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Trifluorotoluene (Surr)	*116*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*87*		*80 - 121*

Lab Sample ID: LCSD 580-318512/3-A
Matrix: Solid
Analysis Batch: 318526

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318512

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	800	617		ug/Kg		77	49 - 147	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*80 - 120*
Trifluorotoluene (Surr)	*117*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 121*

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

Lab Sample ID: MB 580-317967/1-A
Matrix: Solid
Analysis Batch: 318077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25	5.0	ug/Kg		12/02/19 10:57	12/03/19 13:52	1
2-Methylnaphthalene	ND		50	8.8	ug/Kg		12/02/19 10:57	12/03/19 13:52	1
1-Methylnaphthalene	ND		30	5.0	ug/Kg		12/02/19 10:57	12/03/19 13:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*95*		*60 - 125*	*12/02/19 10:57*	*12/03/19 13:52*	*1*
Phenol-d5 (Surr)	*96*		*59 - 120*	*12/02/19 10:57*	*12/03/19 13:52*	*1*
2,4,6-Tribromophenol (Surr)	*46*	*X*	*52 - 125*	*12/02/19 10:57*	*12/03/19 13:52*	*1*
Nitrobenzene-d5 (Surr)	*91*		*62 - 120*	*12/02/19 10:57*	*12/03/19 13:52*	*1*
2-Fluorobiphenyl	*103*		*57 - 120*	*12/02/19 10:57*	*12/03/19 13:52*	*1*
Terphenyl-d14 (Surr)	*116*		*58 - 120*	*12/02/19 10:57*	*12/03/19 13:52*	*1*

Lab Sample ID: LCS 580-317967/2-A
Matrix: Solid
Analysis Batch: 318077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1000	942		ug/Kg		94	68 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-317967/2-A
Matrix: Solid
Analysis Batch: 318077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317967

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2-Methylnaphthalene			1000	939		ug/Kg		94	65 - 120		
1-Methylnaphthalene			1000	972		ug/Kg		97	69 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*88*		*60 - 125*
Phenol-d5 (Surr)	*92*		*59 - 120*
2,4,6-Tribromophenol (Surr)	*76*		*52 - 125*
Nitrobenzene-d5 (Surr)	*91*		*62 - 120*
2-Fluorobiphenyl	*90*		*57 - 120*
Terphenyl-d14 (Surr)	*92*		*58 - 120*

Lab Sample ID: 580-90996-9 MS
Matrix: Solid
Analysis Batch: 318077

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 317967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		1090	996		ug/Kg	☼	91	68 - 120		
2-Methylnaphthalene	9.7	J	1090	992		ug/Kg	☼	90	65 - 120		
1-Methylnaphthalene	ND		1090	1010		ug/Kg	☼	92	69 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*98*		*60 - 125*
Phenol-d5 (Surr)	*102*		*59 - 120*
2,4,6-Tribromophenol (Surr)	*89*		*52 - 125*
Nitrobenzene-d5 (Surr)	*91*		*62 - 120*
2-Fluorobiphenyl	*93*		*57 - 120*
Terphenyl-d14 (Surr)	*96*		*58 - 120*

Lab Sample ID: 580-90996-9 MSD
Matrix: Solid
Analysis Batch: 318077

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 317967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		1100	946		ug/Kg	☼	86	68 - 120	5	15
2-Methylnaphthalene	9.7	J	1100	954		ug/Kg	☼	86	65 - 120	4	21
1-Methylnaphthalene	ND		1100	968		ug/Kg	☼	88	69 - 120	4	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*94*		*60 - 125*
Phenol-d5 (Surr)	*100*		*59 - 120*
2,4,6-Tribromophenol (Surr)	*92*		*52 - 125*
Nitrobenzene-d5 (Surr)	*89*		*62 - 120*
2-Fluorobiphenyl	*91*		*57 - 120*
Terphenyl-d14 (Surr)	*97*		*58 - 120*

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC)

Lab Sample ID: MB 580-318169/1-A
Matrix: Solid
Analysis Batch: 318108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5.0	1.3	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
C10-C12 Aromatics	ND		5.0	1.4	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
C8-C10 Aliphatics	ND		5.0	1.3	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
C8-C10 Aromatics	ND		5.0	0.86	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
C5-C6 Aliphatics	ND		5.0	1.2	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
C6-C8 Aliphatics	ND		5.0	1.3	mg/Kg		12/03/19 09:11	12/03/19 20:05	1
Total VPH	ND		35	2.8	mg/Kg		12/03/19 09:11	12/03/19 20:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*101*		*60 - 140*	*12/03/19 09:11*	*12/03/19 20:05*	*1*
4-Bromofluorobenzene	*99*		*60 - 140*	*12/03/19 09:11*	*12/03/19 20:05*	*1*

Lab Sample ID: MB 580-318169/1-A
Matrix: Solid
Analysis Batch: 318208

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5000	1300	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
C10-C12 Aromatics	ND		5000	1400	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
C8-C10 Aliphatics	ND		5000	1300	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
C8-C10 Aromatics	ND		5000	860	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
C5-C6 Aliphatics	ND		5000	1200	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
C6-C8 Aliphatics	ND		5000	1300	mg/Kg		12/03/19 09:11	12/04/19 13:50	1
Total VPH	ND		35000	2800	mg/Kg		12/03/19 09:11	12/04/19 13:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*101*		*60 - 140*	*12/03/19 09:11*	*12/04/19 13:50*	*1*
4-Bromofluorobenzene	*99*		*60 - 140*	*12/03/19 09:11*	*12/04/19 13:50*	*1*

Lab Sample ID: LCS 580-318169/2-A
Matrix: Solid
Analysis Batch: 318108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	4.00	3.22	J	mg/Kg		81	70 - 130
C10-C12 Aromatics	4.00	4.69	J	mg/Kg		117	70 - 130
C8-C10 Aliphatics	8.00	6.38		mg/Kg		80	70 - 130
C8-C10 Aromatics	16.0	16.5		mg/Kg		103	70 - 130
C5-C6 Aliphatics	8.00	6.82		mg/Kg		85	70 - 130
C6-C8 Aliphatics	4.00	3.63	J	mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*
4-Bromofluorobenzene	*99*		*60 - 140*

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) (Continued)

Lab Sample ID: LCS 580-318169/2-A
Matrix: Solid
Analysis Batch: 318208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	4.00	3.56	J	mg/Kg		89	70 - 130
C10-C12 Aromatics	4.00	4.56	J	mg/Kg		114	70 - 130
C8-C10 Aliphatics	8.00	6.41		mg/Kg		80	70 - 130
C8-C10 Aromatics	16.0	16.4		mg/Kg		102	70 - 130
C5-C6 Aliphatics	8.00	6.85		mg/Kg		86	70 - 130
C6-C8 Aliphatics	4.00	3.65	J	mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*
4-Bromofluorobenzene	*100*		*60 - 140*

Lab Sample ID: LCSD 580-318169/3-A
Matrix: Solid
Analysis Batch: 318108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	4.00	3.26	J	mg/Kg		81	70 - 130	1	25
C10-C12 Aromatics	4.00	4.62	J	mg/Kg		116	70 - 130	2	25
C8-C10 Aliphatics	8.00	6.37		mg/Kg		80	70 - 130	0	25
C8-C10 Aromatics	16.0	16.5		mg/Kg		103	70 - 130	0	25
C5-C6 Aliphatics	8.00	6.77		mg/Kg		85	70 - 130	1	25
C6-C8 Aliphatics	4.00	3.62	J	mg/Kg		90	70 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
BFB - PID	*95*		*60 - 140*
4-Bromofluorobenzene	*99*		*60 - 140*

Lab Sample ID: LCSD 580-318169/3-A
Matrix: Solid
Analysis Batch: 318208

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	4.00	3.73	J	mg/Kg		93	70 - 130	5	25
C10-C12 Aromatics	4.00	4.58	J	mg/Kg		115	70 - 130	0	25
C8-C10 Aliphatics	8.00	6.70		mg/Kg		84	70 - 130	4	25
C8-C10 Aromatics	16.0	16.4		mg/Kg		103	70 - 130	0	25
C5-C6 Aliphatics	8.00	6.98		mg/Kg		87	70 - 130	2	25
C6-C8 Aliphatics	4.00	3.69	J	mg/Kg		92	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*
4-Bromofluorobenzene	*100*		*60 - 140*

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons, Duwamish Ranges (GC) (Continued)

Lab Sample ID: MB 580-318544/1-A
Matrix: Solid
Analysis Batch: 318494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		5.0	1.4	mg/Kg		12/09/19 09:24	12/10/19 01:19	1
C8-C10 Aromatics	ND		5.0	0.86	mg/Kg		12/09/19 09:24	12/10/19 01:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
BFB - PID	*104*		*60 - 140*	*12/09/19 09:24*	*12/10/19 01:19*	*1*

Lab Sample ID: LCS 580-318544/2-A
Matrix: Solid
Analysis Batch: 318494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	4.00	4.74	J	mg/Kg		119	70 - 130
C8-C10 Aromatics	16.0	17.8		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*

Lab Sample ID: LCSD 580-318544/3-A
Matrix: Solid
Analysis Batch: 318494

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318544

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aromatics	4.00	4.79	J	mg/Kg		120	70 - 130	1	25
C8-C10 Aromatics	16.0	18.0		mg/Kg		112	70 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
BFB - PID	*96*		*60 - 140*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-317835/1-A
Matrix: Solid
Analysis Batch: 317850

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	2.3	mg/Kg		11/27/19 13:16	11/28/19 07:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*50 - 150*	*11/27/19 13:16*	*11/28/19 07:06*	*1*
Trifluorotoluene (Surr)	*93*		*50 - 150*	*11/27/19 13:16*	*11/28/19 07:06*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-317835/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 317850 — **Prep Batch: 317835**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline	40.0	37.2		mg/Kg		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*
Trifluorotoluene (Surr)	*96*		*50 - 150*

Lab Sample ID: LCSD 580-317835/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 317850 — **Prep Batch: 317835**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline	40.0	37.0		mg/Kg		93	80 - 120	1	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*
Trifluorotoluene (Surr)	*98*		*50 - 150*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 580-318102/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 318760 — **Prep Batch: 318102**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aromatics	ND		5.0	0.84	mg/Kg		12/03/19 11:47	12/12/19 19:25	1
C12-C16 Aromatics	ND		5.0	0.44	mg/Kg		12/03/19 11:47	12/12/19 19:25	1
C16-C21 Aromatics	ND		5.0	0.64	mg/Kg		12/03/19 11:47	12/12/19 19:25	1
C21-C34 Aromatics	ND		5.0	1.0	mg/Kg		12/03/19 11:47	12/12/19 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*60 - 140*	*12/03/19 11:47*	*12/12/19 19:25*	*1*

Lab Sample ID: MB 580-318102/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 318892 — **Prep Batch: 318102**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C12 Aliphatics	ND		5.0	0.48	mg/Kg		12/03/19 11:47	12/15/19 16:31	1
C12-C16 Aliphatics	ND		5.0	0.44	mg/Kg		12/03/19 11:47	12/15/19 16:31	1
C16-C21 Aliphatics	ND		5.0	0.61	mg/Kg		12/03/19 11:47	12/15/19 16:31	1
C21-C34 Aliphatics	ND		5.0	1.2	mg/Kg		12/03/19 11:47	12/15/19 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctadecane	*99*		*60 - 140*	*12/03/19 11:47*	*12/15/19 16:31*	*1*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCS 580-318102/2-B
Matrix: Solid
Analysis Batch: 318760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	1.33	ND		mg/Kg		56	50 - 150
C12-C16 Aromatics	4.00	2.28	J	mg/Kg		57	50 - 150
C16-C21 Aromatics	6.67	4.38	J	mg/Kg		66	50 - 150
C21-C34 Aromatics	10.7	6.77		mg/Kg		64	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*65*		*60 - 140*

Lab Sample ID: LCS 580-318102/2-B
Matrix: Solid
Analysis Batch: 318892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	1.33	1.00	J	mg/Kg		75	50 - 150
C12-C16 Aliphatics	2.67	2.30	J	mg/Kg		86	50 - 150
C16-C21 Aliphatics	4.00	4.12	J	mg/Kg		103	50 - 150
C21-C34 Aliphatics	8.00	7.74		mg/Kg		97	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctadecane	*93*		*60 - 140*

Lab Sample ID: LCSD 580-318102/3-B
Matrix: Solid
Analysis Batch: 318760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aromatics	1.33	0.980	J *	mg/Kg		74	50 - 150	28	25
C12-C16 Aromatics	4.00	3.05	J *	mg/Kg		76	50 - 150	29	25
C16-C21 Aromatics	6.67	5.92	*	mg/Kg		89	50 - 150	30	25
C21-C34 Aromatics	10.7	9.35	*	mg/Kg		88	50 - 150	32	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*86*		*60 - 140*

Lab Sample ID: LCSD 580-318102/3-B
Matrix: Solid
Analysis Batch: 318892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	1.33	1.02	J	mg/Kg		76	50 - 150	1	25
C12-C16 Aliphatics	2.67	2.38	J	mg/Kg		89	50 - 150	3	25
C16-C21 Aliphatics	4.00	4.34	J	mg/Kg		108	50 - 150	5	25
C21-C34 Aliphatics	8.00	7.86		mg/Kg		98	50 - 150	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctadecane	*96*		*60 - 140*

Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: 580-90996-9 MS
Matrix: Solid
Analysis Batch: 318760

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	ND	*	1.47	ND		mg/Kg	☼	NC	50 - 150
C12-C16 Aromatics	ND	*	4.41	ND		mg/Kg	☼	NC	50 - 150
C16-C21 Aromatics	ND	F1 *	7.35	ND	F1	mg/Kg	☼	0	50 - 150
C21-C34 Aromatics	ND	F1 *	11.8	ND	F1	mg/Kg	☼	0	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*82*		*60 - 140*

Lab Sample ID: 580-90996-9 MS
Matrix: Solid
Analysis Batch: 318892

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aliphatics	ND		1.47	ND		mg/Kg	☼	NC	50 - 150
C12-C16 Aliphatics	ND		2.94	5.17	J	mg/Kg	☼	NC	50 - 150
C16-C21 Aliphatics	ND		4.41	8.46	J	mg/Kg	☼	NC	50 - 150
C21-C34 Aliphatics	31	J F1	8.82	38.7	J	mg/Kg	☼	92	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctadecane	*133*		*60 - 140*

Lab Sample ID: 580-90996-9 MSD
Matrix: Solid
Analysis Batch: 318760

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aromatics	ND	*	1.48	ND		mg/Kg	☼	NC	50 - 150	NC	25
C12-C16 Aromatics	ND	*	4.44	ND		mg/Kg	☼	NC	50 - 150	NC	25
C16-C21 Aromatics	ND	F1 *	7.40	ND	F1	mg/Kg	☼	0	50 - 150	NC	25
C21-C34 Aromatics	ND	F1 *	11.8	ND	F1	mg/Kg	☼	0	50 - 150	NC	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*85*		*60 - 140*

Lab Sample ID: 580-90996-9 MSD
Matrix: Solid
Analysis Batch: 318892

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA
Prep Batch: 318102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C12 Aliphatics	ND		1.48	ND		mg/Kg	☼	NC	50 - 150	NC	25
C12-C16 Aliphatics	ND		2.96	ND		mg/Kg	☼	NC	50 - 150	NC	25
C16-C21 Aliphatics	ND		4.44	8.88	J	mg/Kg	☼	NC	50 - 150	5	25
C21-C34 Aliphatics	31	J F1	8.88	46.2	J F1	mg/Kg	☼	175	50 - 150	17	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctadecane	*159*	*X*	*60 - 140*

QC Sample Results

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Method: 2540G - SM 2540G

Lab Sample ID: 580-90996-9 DU
Matrix: Solid
Analysis Batch: 318088

Client Sample ID: KLF 11-5.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	89.4			89.5		%				0.2	20
Percent Moisture	10.6			10.5		%				1	20

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.25
Date Collected: 11/19/19 13:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 10-4.25
Date Collected: 11/19/19 13:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-1
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/28/19 21:06	APR	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 17:21	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 20:34	JSM	TAL SEA
Total/NA	Prep	5035	RA		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	318208	12/04/19 14:24	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 11:07	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 21:05	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 18:07	JCM	TAL SEA

Client Sample ID: KLF 10-4.50
Date Collected: 11/19/19 13:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 10-4.50
Date Collected: 11/19/19 13:20
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-2
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/28/19 21:34	APR	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 17:44	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 21:04	JSM	TAL SEA
Total/NA	Prep	5035	RA		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	318208	12/04/19 14:53	JSM	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 10-4.50

Lab Sample ID: 580-90996-2
Date Collected: 11/19/19 13:20
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 11:31	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 21:30	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 18:31	JCM	TAL SEA

Client Sample ID: KLF 10-6.00

Lab Sample ID: 580-90996-3
Date Collected: 11/19/19 14:00
Matrix: Solid
Date Received: 11/21/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 10-6.00

Lab Sample ID: 580-90996-3
Date Collected: 11/19/19 14:00
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/28/19 22:01	APR	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 18:07	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 21:33	JSM	TAL SEA
Total/NA	Prep	5035	RA		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	318208	12/04/19 15:22	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 11:55	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 21:55	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 18:54	JCM	TAL SEA

Client Sample ID: KLF 12-4.00

Lab Sample ID: 580-90996-4
Date Collected: 11/19/19 14:30
Matrix: Solid
Date Received: 11/21/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/28/19 22:29	APR	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 15-10
Date Collected: 11/19/19 16:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 15-10
Date Collected: 11/19/19 16:00
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-5
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			318157	12/03/19 09:00	ASJ	TAL SEA
Total/NA	Analysis	8260C		1	318158	12/03/19 16:23	T1W	TAL SEA
Total/NA	Prep	5035	DL		318269	12/04/19 09:59	ASJ	TAL SEA
Total/NA	Analysis	8260C	DL	1	318323	12/04/19 19:43	CJ	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 18:31	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 22:02	JSM	TAL SEA
Total/NA	Prep	5035	DL		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	DL	1	318208	12/04/19 15:57	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 13:32	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 22:20	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 19:18	JCM	TAL SEA

Client Sample ID: KLF 15-15
Date Collected: 11/19/19 16:30
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 15-15
Date Collected: 11/19/19 16:30
Date Received: 11/21/19 08:00

Lab Sample ID: 580-90996-6
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			318157	12/03/19 09:00	ASJ	TAL SEA
Total/NA	Analysis	8260C		1	318158	12/03/19 16:48	T1W	TAL SEA
Total/NA	Prep	5035	RA		318269	12/04/19 09:59	ASJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	318323	12/04/19 20:08	CJ	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 12:19	DCV	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-6.00

Lab Sample ID: 580-90996-7
Date Collected: 11/19/19 15:20
Matrix: Solid
Date Received: 11/21/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 12-6.00

Lab Sample ID: 580-90996-7
Date Collected: 11/19/19 15:20
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			318157	12/03/19 09:00	ASJ	TAL SEA
Total/NA	Analysis	8260C		1	318158	12/03/19 17:14	T1W	TAL SEA
Total/NA	Prep	5035	DL		318269	12/04/19 09:59	ASJ	TAL SEA
Total/NA	Analysis	8260C	DL	1	318323	12/04/19 20:34	CJ	TAL SEA
Total/NA	Prep	5035	RADL		318512	12/09/19 09:00	ASJ	TAL SEA
Total/NA	Analysis	8260C	RADL	1	318526	12/09/19 13:39	T1W	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 18:54	T1W	TAL SEA
Total/NA	Prep	3550B	DL		317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D	DL	50	318245	12/05/19 00:18	TL1	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 22:31	JSM	TAL SEA
Total/NA	Prep	5035	DL		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	DL	1	318208	12/04/19 16:26	JSM	TAL SEA
Total/NA	Prep	5035	DL2		318544	12/09/19 09:24	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	DL2	1	318494	12/10/19 01:48	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 13:56	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 22:45	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 19:42	JCM	TAL SEA

Client Sample ID: KLF 12-5.00

Lab Sample ID: 580-90996-8
Date Collected: 11/19/19 16:10
Matrix: Solid
Date Received: 11/21/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Client Sample ID: KLF 12-5.00

Lab Sample ID: 580-90996-8
Date Collected: 11/19/19 16:10
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/29/19 00:20	APR	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 19:17	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 23:00	JSM	TAL SEA
Total/NA	Prep	5035	RA		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	318208	12/04/19 16:55	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 12:43	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/12/19 23:10	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/15/19 20:05	JCM	TAL SEA

Client Sample ID: KLF 11-5.5

Lab Sample ID: 580-90996-9
Date Collected: 11/19/19 16:30
Matrix: Solid
Date Received: 11/21/19 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	318088	12/03/19 11:12	JWM	TAL SEA

Client Sample ID: KLF 11-5.5

Lab Sample ID: 580-90996-9
Date Collected: 11/19/19 16:30
Matrix: Solid
Date Received: 11/21/19 08:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			317885	11/21/19 08:20	APR	TAL SEA
Total/NA	Analysis	8260C		1	317881	11/29/19 00:48	APR	TAL SEA
Total/NA	Prep	3550B			317967	12/02/19 10:57	JWM	TAL SEA
Total/NA	Analysis	8270D		1	318077	12/03/19 19:41	T1W	TAL SEA
Total/NA	Prep	5035			318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH		1	318108	12/03/19 23:28	JSM	TAL SEA
Total/NA	Prep	5035	RA		318169	12/03/19 09:11	JSM	TAL SEA
Total/NA	Analysis	NWTPH/VPH	RA	1	318208	12/04/19 17:24	JSM	TAL SEA
Total/NA	Prep	5035			317835	11/27/19 13:38	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	317850	11/28/19 13:08	DCV	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318760	12/13/19 00:00	ERZ	TAL SEA
Total/NA	Prep	3550B			318102	12/03/19 11:47	FCG	TAL SEA
Total/NA	Fraction	EPH Frac			318688	12/11/19 18:44	FCG	TAL SEA
Total/NA	Analysis	NWTPH/EPH		1	318892	12/16/19 11:09	JCM	TAL SEA

Lab Chronicle

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

Sample Summary

Client: Eurofins Calscience LLC
Project/Site: Soils

Job ID: 580-90996-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-90996-1	KLF 10-4.25	Solid	11/19/19 13:00	11/21/19 08:00	
580-90996-2	KLF 10-4.50	Solid	11/19/19 13:20	11/21/19 08:00	
580-90996-3	KLF 10-6.00	Solid	11/19/19 14:00	11/21/19 08:00	
580-90996-4	KLF 12-4.00	Solid	11/19/19 14:30	11/21/19 08:00	
580-90996-5	KLF 15-10	Solid	11/19/19 16:00	11/21/19 08:00	
580-90996-6	KLF 15-15	Solid	11/19/19 16:30	11/21/19 08:00	
580-90996-7	KLF 12-6.00	Solid	11/19/19 15:20	11/21/19 08:00	
580-90996-8	KLF 12-5.00	Solid	11/19/19 16:10	11/21/19 08:00	
580-90996-9	KLF 11-5.5	Solid	11/19/19 16:30	11/21/19 08:00	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Will R. / Meryl E.	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No.: 580-34785-11273.1
Client Contact: Accounts Payable	Phone: 425 634-7900	E-Mail: nathan.lewis@testamericainc.com		Page: Page 1 of 2
Company: Eurofins Calscience LLC				Job #:
Address: 7440 Lincoln Way	Due Date Requested:			
City: Garden Grove	TAT Requested (days): Standard			
State, Zip: CA, 92841				
Phone: 714-895-5494(Tel)	PO #: Purchase Order not required			
Email: us26_ap@eurofinsus.com	WO #: 20171147			
Project Name: Soils	Project #: 58013924			
Site: YOM 72864	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D, Moisture, NWTPH_EPH	8260C, NWTPH_Gx	NWTPH_VPH - VPH Reported with EPH - C12-C13 not repo	Moisture, NWTPH_EPH	8260C - (MOD) Benzene	8260C 8TEX	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	F	F	N	N			
1)	KLF 10 - 4.25	11-19-19	1300	G	Solid			X	X	X	X		X		Stir Bottle, [illegible]
2)	KLF 10 - 4.50	11-19	1320	G	Solid			X	X	X	X		X		Clear Jar
3)	KLF 10 - 6.00	11-19	1400	G	Solid			X	X	X	X		X		
4)	KLF 12 - 4.00	11-19	1430	G	Solid							X			
5)	KLF 15 - 10	11-19	1600	G	Solid			X	X	X	X		X		
6)	KLF 15 - 15	11-19	1630	G	Solid				X				X		
7)	KLF 12 - 6.00	11-19	1520	G	Solid			X	X	X			X		
8)	KLF 10 - 5.00	11-19	1610	G	Solid			X	X	X			X		
9)	KLF 11 - 5.5	11-19	1630	G	Solid			X	X	X	X		X		
					Solid										
					Solid										

Therm. ID: A1 Cor: 4.2 Unc: 4.3
Cooler Dsc: LB
Packing: 3.6
Cust. Seal: Yes T No
Blue Ice, Wet, Dry, None
FedEx: FO
UPS:
Lab Courier:
Other:

580-90996 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	11-20-19	KLF	[signature]	11-21-19 0800	TASea

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Eurofins Calscience LLC

Job Number: 580-90996-1

Login Number: 90996
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

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

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-16753-1

Login Number: 16753
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

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

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-27277-1
Client Project/Site: Former ExxonMobil 72864
Revision: 1

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
7/9/2020 5:58:25 PM

Cecile de Guia, Project Manager I
(714)895-5494
ceciledeguia@eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 570-27277-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-27277-1

Comments
Please note that the report has been revised to include the missing Benzene result for sample 570-27277-2 (KLF-16-1-6").

No additional comments.

Receipt
The samples were received on 4/30/2020 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.6º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside control limits: KLF-16-1-6' (570-27277-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-327909 recovered above the upper control limit for 1,1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene Dibromomethane, Dichlorobromomethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Bromobenzene, Bromoform, 2-Chlorotoluene, 4-Chlorotoluene, 4-Isopropyltoluene, Chlorobenzene, Chlorobromomethane, Chlorodibromomethane, Chloroform Ethylene Dibromide, Hexachlorobutadiene, Ethylbenzene, Isopropylbenzene, m-Xylene & p-Xylene, Methyl tert-butyl ether, n-Butylbenzene, N-Propylbenzene, o-Xylene, sec-Butylbenzene, Styrene, tert-Butylbenzene, Toluene, Tetrachloroethene trans-1,3-Dichloropropene, Trichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: KLF-13-1-6' (570-27277-1), KLF-16-1-6' (570-27277-2), KLF-12-1-4' (570-27277-3), KLF-12-2-5' (570-27277-4), KLF-12-3-6' (570-27277-5), KLF-14-1-7.5' (570-27277-6), KLF-11-1-6' (570-27277-7) and (CCVIS 580-327909/3).

Method 8260D: The following sample was analyzed at reduced volume due to high concentrations of target analytes: KLF-16-2-7' (570-27277-8). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

Method 8260D: Reanalysis of the following samples were performed outside of the analytical holding time due to results being over the calibration limit from the initial analysis method. : KLF-16-1-6' (570-27277-2) and KLF-16-2-7' (570-27277-8).

Method 8260D: Reanalysis of the following sample was performed outside of the analytical holding time due to analysis method being needed to change due to results being over calibration range : KLF-16-2-7' (570-27277-8).

Method 8260D: The following sample was analyzed outside of analytical holding time due to login error: Trip Blank (570-27277-10).

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: Trip Blank (570-27277-10). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA
Method NWTPH-Gx: Sample displays an atypical hydrocarbon pattern when compared to laboratory standard samples

KLF-14-1-7.5' (570-27277-6)

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

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

Job ID: 570-27277-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

Subcontract non-Sister
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF-13-1-6' (570-27277-1), KLF-16-1-6' (570-27277-2), KLF-12-2-5' (570-27277-4), KLF-12-3-6' (570-27277-5), KLF-14-1-7.5' (570-27277-6), KLF-11-1-6' (570-27277-7) and KLF-16-2-7' (570-27277-8). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was below this range.

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF-13-1-6' (570-27277-1), KLF-12-1-4' (570-27277-3), KLF-12-3-6' (570-27277-5) and KLF-11-1-6' (570-27277-7). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

Method 5035: The following sample was provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF-16-2-7' (570-27277-8). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF-16-1-6' (570-27277-2) and KLF-16-2-7' (570-27277-8). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was below this range.

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

Subcontract Work
Method VPH and EPH: This method was subcontracted to Analytica Resources Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

Detection Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Client Sample ID: KLF-13-1-6' — Lab Sample ID: 570-27277-1

Sample Analysis Not Complete.

Client Sample ID: KLF-16-1-6' — Lab Sample ID: 570-27277-2

Sample Analysis Not Complete.

Client Sample ID: KLF-12-1-4' — Lab Sample ID: 570-27277-3

No Detections.

Client Sample ID: KLF-12-2-5' — Lab Sample ID: 570-27277-4

Sample Analysis Not Complete.

Client Sample ID: KLF-12-3-6' — Lab Sample ID: 570-27277-5

Sample Analysis Not Complete.

Client Sample ID: KLF-14-1-7.5' — Lab Sample ID: 570-27277-6

Sample Analysis Not Complete.

Client Sample ID: KLF-11-1-6' — Lab Sample ID: 570-27277-7

Sample Analysis Not Complete.

Client Sample ID: KLF-16-2-7' — Lab Sample ID: 570-27277-8

Sample Analysis Not Complete.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

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

Client Sample ID: KLF-13-1-6'
Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.4	0.27	ug/Kg		04/30/20 14:00	05/07/20 15:16	1
Toluene	ND		6.9	0.90	ug/Kg		04/30/20 14:00	05/07/20 15:16	1
Ethylbenzene	ND		1.4	0.28	ug/Kg		04/30/20 14:00	05/07/20 15:16	1
m-Xylene & p-Xylene	ND		6.9	0.39	ug/Kg		04/30/20 14:00	05/07/20 15:16	1
o-Xylene	ND		3.5	0.64	ug/Kg		04/30/20 14:00	05/07/20 15:16	1
Xylenes, Total	ND		6.9	0.64	ug/Kg		04/30/20 14:00	05/07/20 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*80 - 120*	*04/30/20 14:00*	*05/07/20 15:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*04/30/20 14:00*	*05/07/20 15:16*	*1*
Dibromofluoromethane (Surr)	*116*		*80 - 120*	*04/30/20 14:00*	*05/07/20 15:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*80 - 121*	*04/30/20 14:00*	*05/07/20 15:16*	*1*

Client Sample ID: KLF-16-1-6'
Date Collected: 04/29/20 11:01
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**82**		1.7	0.34	ug/Kg		04/30/20 14:00	05/07/20 15:44	1
Ethylbenzene	**87**	**H**	66	15	ug/Kg		05/11/20 10:00	05/11/20 14:13	1
m-Xylene & p-Xylene	**180**	**J H *1**	330	25	ug/Kg		05/11/20 10:00	05/11/20 14:13	1
o-Xylene	**53**	**J H**	99	22	ug/Kg		05/11/20 10:00	05/11/20 14:13	1
Xylenes, Total	**230**	**J H *1**	330	25	ug/Kg		05/11/20 10:00	05/11/20 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*05/11/20 10:00*	*05/11/20 14:13*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*05/11/20 10:00*	*05/11/20 14:13*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*	*05/11/20 10:00*	*05/11/20 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 121*	*05/11/20 10:00*	*05/11/20 14:13*	*1*

Client Sample ID: KLF-12-1-4'
Date Collected: 04/29/20 10:05
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.30	ug/Kg		04/30/20 14:00	05/07/20 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 121*	*04/30/20 14:00*	*05/07/20 16:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*04/30/20 14:00*	*05/07/20 16:12*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*	*04/30/20 14:00*	*05/07/20 16:12*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*	*04/30/20 14:00*	*05/07/20 16:12*	*1*

Client Sample ID: KLF-12-2-5'
Date Collected: 04/29/20 10:15
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.39**	**J**	1.8	0.35	ug/Kg		04/30/20 14:00	05/07/20 16:40	1
Toluene	ND		9.0	1.2	ug/Kg		04/30/20 14:00	05/07/20 16:40	1
Ethylbenzene	ND		1.8	0.37	ug/Kg		04/30/20 14:00	05/07/20 16:40	1
m-Xylene & p-Xylene	ND		9.0	0.50	ug/Kg		04/30/20 14:00	05/07/20 16:40	1
o-Xylene	ND		4.5	0.83	ug/Kg		04/30/20 14:00	05/07/20 16:40	1
Xylenes, Total	ND		9.0	0.83	ug/Kg		04/30/20 14:00	05/07/20 16:40	1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120	04/30/20 14:00	05/07/20 16:40	1
4-Bromofluorobenzene (Surr)	102		80 - 120	04/30/20 14:00	05/07/20 16:40	1
Dibromofluoromethane (Surr)	108		80 - 120	04/30/20 14:00	05/07/20 16:40	1
1,2-Dichloroethane-d4 (Surr)	111		80 - 121	04/30/20 14:00	05/07/20 16:40	1

Client Sample ID: KLF-12-3-6' — **Lab Sample ID: 570-27277-5**
Date Collected: 04/29/20 10:30 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.32**	**J**	1.7	0.32	ug/Kg		04/30/20 14:00	05/07/20 17:08	1
Toluene	ND		8.3	1.1	ug/Kg		04/30/20 14:00	05/07/20 17:08	1
Ethylbenzene	ND		1.7	0.34	ug/Kg		04/30/20 14:00	05/07/20 17:08	1
m-Xylene & p-Xylene	ND		8.3	0.46	ug/Kg		04/30/20 14:00	05/07/20 17:08	1
o-Xylene	ND		4.1	0.76	ug/Kg		04/30/20 14:00	05/07/20 17:08	1
Xylenes, Total	ND		8.3	0.76	ug/Kg		04/30/20 14:00	05/07/20 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120	04/30/20 14:00	05/07/20 17:08	1
4-Bromofluorobenzene (Surr)	103		80 - 120	04/30/20 14:00	05/07/20 17:08	1
Dibromofluoromethane (Surr)	106		80 - 120	04/30/20 14:00	05/07/20 17:08	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 121	04/30/20 14:00	05/07/20 17:08	1

Client Sample ID: KLF-14-1-7.5' — **Lab Sample ID: 570-27277-6**
Date Collected: 04/29/20 08:50 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.5	0.48	ug/Kg		04/30/20 14:00	05/07/20 17:36	1
Toluene	ND		12	1.6	ug/Kg		04/30/20 14:00	05/07/20 17:36	1
Ethylbenzene	ND		2.5	0.50	ug/Kg		04/30/20 14:00	05/07/20 17:36	1
m-Xylene & p-Xylene	ND		12	0.69	ug/Kg		04/30/20 14:00	05/07/20 17:36	1
o-Xylene	ND		6.2	1.1	ug/Kg		04/30/20 14:00	05/07/20 17:36	1
Xylenes, Total	ND		12	1.1	ug/Kg		04/30/20 14:00	05/07/20 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120	04/30/20 14:00	05/07/20 17:36	1
4-Bromofluorobenzene (Surr)	102		80 - 120	04/30/20 14:00	05/07/20 17:36	1
Dibromofluoromethane (Surr)	109		80 - 120	04/30/20 14:00	05/07/20 17:36	1
1,2-Dichloroethane-d4 (Surr)	113		80 - 121	04/30/20 14:00	05/07/20 17:36	1

Client Sample ID: KLF-11-1-6' — **Lab Sample ID: 570-27277-7**
Date Collected: 04/29/20 09:19 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.29	ug/Kg		04/30/20 14:00	05/07/20 18:04	1
Toluene	ND		7.4	0.97	ug/Kg		04/30/20 14:00	05/07/20 18:04	1
Ethylbenzene	ND		1.5	0.30	ug/Kg		04/30/20 14:00	05/07/20 18:04	1
m-Xylene & p-Xylene	ND		7.4	0.42	ug/Kg		04/30/20 14:00	05/07/20 18:04	1
o-Xylene	ND		3.7	0.68	ug/Kg		04/30/20 14:00	05/07/20 18:04	1
Xylenes, Total	ND		7.4	0.68	ug/Kg		04/30/20 14:00	05/07/20 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		80 - 120	04/30/20 14:00	05/07/20 18:04	1
4-Bromofluorobenzene (Surr)	104		80 - 120	04/30/20 14:00	05/07/20 18:04	1

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

Client Sample ID: KLF-11-1-6'
Date Collected: 04/29/20 09:19
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-7
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		80 - 120	04/30/20 14:00	05/07/20 18:04	1
1,2-Dichloroethane-d4 (Surr)	120		80 - 121	04/30/20 14:00	05/07/20 18:04	1

Client Sample ID: KLF-16-2-7'
Date Collected: 04/29/20 11:40
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	5.5	J	8.6	1.1	ug/Kg		04/30/20 14:00	05/07/20 18:32	1
Ethylbenzene	3600	H	69	16	ug/Kg		05/11/20 10:00	05/11/20 14:41	1
o-Xylene	1500	H	100	23	ug/Kg		05/11/20 10:00	05/11/20 14:41	1
Xylenes, Total	13000	H *1	350	26	ug/Kg		05/11/20 10:00	05/11/20 14:41	1
Benzene	2200	H	52	6.6	ug/Kg		05/11/20 10:00	05/12/20 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	204	X	80 - 120	04/30/20 14:00	05/07/20 18:32	1
Toluene-d8 (Surr)	101		80 - 120	05/11/20 10:00	05/11/20 14:41	1
Toluene-d8 (Surr)	107		80 - 120	05/11/20 10:00	05/12/20 14:52	1
4-Bromofluorobenzene (Surr)	100		80 - 120	04/30/20 14:00	05/07/20 18:32	1
4-Bromofluorobenzene (Surr)	105		80 - 120	05/11/20 10:00	05/11/20 14:41	1
4-Bromofluorobenzene (Surr)	103		80 - 120	05/11/20 10:00	05/12/20 14:52	1
Dibromofluoromethane (Surr)	103		80 - 120	04/30/20 14:00	05/07/20 18:32	1
Dibromofluoromethane (Surr)	96		80 - 120	05/11/20 10:00	05/11/20 14:41	1
Dibromofluoromethane (Surr)	96		80 - 120	05/11/20 10:00	05/12/20 14:52	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121	04/30/20 14:00	05/07/20 18:32	1
1,2-Dichloroethane-d4 (Surr)	94		80 - 121	05/11/20 10:00	05/11/20 14:41	1
1,2-Dichloroethane-d4 (Surr)	96		80 - 121	05/11/20 10:00	05/12/20 14:52	1

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

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

Client Sample ID: KLF-16-2-7'
Date Collected: 04/29/20 11:40
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**12000**	**H**	1900	140	ug/Kg		05/11/20 10:00	05/11/20 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*	*05/11/20 10:00*	*05/11/20 15:43*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*05/11/20 10:00*	*05/11/20 15:43*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*	*05/11/20 10:00*	*05/11/20 15:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*	*05/11/20 10:00*	*05/11/20 15:43*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: KLF-13-1-6' **Lab Sample ID: 570-27277-1**
Date Collected: 04/29/20 13:10 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		8.2	3.8	mg/Kg		05/06/20 12:08	05/06/20 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*	*05/06/20 12:08*	*05/06/20 17:03*	*1*

Client Sample ID: KLF-16-1-6' **Lab Sample ID: 570-27277-2**
Date Collected: 04/29/20 11:01 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**7.7**	**J**	8.3	3.8	mg/Kg		05/06/20 12:08	05/06/20 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*05/06/20 12:08*	*05/06/20 17:28*	*1*

Client Sample ID: KLF-12-2-5' **Lab Sample ID: 570-27277-4**
Date Collected: 04/29/20 10:15 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		9.3	4.3	mg/Kg		05/06/20 12:08	05/06/20 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*	*05/06/20 12:08*	*05/06/20 17:52*	*1*

Client Sample ID: KLF-12-3-6' **Lab Sample ID: 570-27277-5**
Date Collected: 04/29/20 10:30 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		8.6	4.0	mg/Kg		05/06/20 12:08	05/06/20 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*05/06/20 12:08*	*05/06/20 18:17*	*1*

Client Sample ID: KLF-14-1-7.5' **Lab Sample ID: 570-27277-6**
Date Collected: 04/29/20 08:50 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**9.9**		8.5	3.9	mg/Kg		05/06/20 12:08	05/06/20 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*	*05/06/20 12:08*	*05/06/20 18:41*	*1*

Client Sample ID: KLF-11-1-6' **Lab Sample ID: 570-27277-7**
Date Collected: 04/29/20 09:19 **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		7.5	3.4	mg/Kg		05/06/20 12:08	05/06/20 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*05/06/20 12:08*	*05/06/20 19:05*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: KLF-16-2-7'
Date Collected: 04/29/20 11:40
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**9.4**		0.22	0.10	mg/Kg		05/06/20 12:08	05/08/20 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*50 - 150*	*05/06/20 12:08*	*05/08/20 14:02*	*1*

General Chemistry

Client Sample ID: KLF-13-1-6' — **Lab Sample ID: 570-27277-1**
Date Collected: 04/29/20 13:10 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.3		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	9.7		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-16-1-6' — **Lab Sample ID: 570-27277-2**
Date Collected: 04/29/20 11:01 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.2		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	19.8		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-12-1-4' — **Lab Sample ID: 570-27277-3**
Date Collected: 04/29/20 10:05 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96.0		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	4.0		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-12-2-5' — **Lab Sample ID: 570-27277-4**
Date Collected: 04/29/20 10:15 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95.3		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	4.7		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-12-3-6' — **Lab Sample ID: 570-27277-5**
Date Collected: 04/29/20 10:30 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93.9		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	6.1		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-14-1-7.5' — **Lab Sample ID: 570-27277-6**
Date Collected: 04/29/20 08:50 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.4		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	16.6		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-11-1-6' — **Lab Sample ID: 570-27277-7**
Date Collected: 04/29/20 09:19 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.7		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	10.3		0.1	0.1	%			05/05/20 17:09	1

Client Sample ID: KLF-16-2-7' — **Lab Sample ID: 570-27277-8**
Date Collected: 04/29/20 11:40 — **Matrix: Solid**
Date Received: 04/30/20 10:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	70.8		0.1	0.1	%			05/05/20 17:09	1
Percent Moisture	29.2		0.1	0.1	%			05/05/20 17:09	1

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TOL (80-120)	BFB (80-120)	DBFM (80-120)	DCA (80-121)
570-27277-1	KLF-13-1-6'	86	101	116	121
570-27277-2	KLF-16-1-6'	104	103	93	93
570-27277-3	KLF-12-1-4'	91	104	110	112
570-27277-4	KLF-12-2-5'	96	102	108	111
570-27277-5	KLF-12-3-6'	94	103	106	108
570-27277-6	KLF-14-1-7.5'	92	102	109	113
570-27277-7	KLF-11-1-6'	88	104	112	120
570-27277-8	KLF-16-2-7'	204 X	100	103	105
570-27277-8 - DL	KLF-16-2-7'	104	104	94	94
570-27277-8	KLF-16-2-7'	101	105	96	94
570-27277-8	KLF-16-2-7'	107	103	96	96
LCS 580-327895/2-A	Lab Control Sample	96	102	103	102
LCS 580-328061/2-A	Lab Control Sample	101	100	95	94
LCS 580-328061/2-A	Lab Control Sample	106	93	95	95
LCSD 580-327895/3-A	Lab Control Sample Dup	100	101	102	106
LCSD 580-328061/3-A	Lab Control Sample Dup	101	101	95	93
LCSD 580-328061/3-A	Lab Control Sample Dup	106	94	93	94
MB 580-327895/1-A	Method Blank	94	99	107	109
MB 580-328061/1-A	Method Blank	103	105	94	94
MB 580-328061/1-A	Method Blank	110	94	95	95

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB2 (50-150)
570-27277-1	KLF-13-1-6'	97
570-27277-2	KLF-16-1-6'	93
570-27277-4	KLF-12-2-5'	96
570-27277-5	KLF-12-3-6'	92
570-27277-6	KLF-14-1-7.5'	99
570-27277-7	KLF-11-1-6'	95
570-27277-8	KLF-16-2-7'	118
LCS 580-327812/2-A	Lab Control Sample	93
LCSD 580-327812/3-A	Lab Control Sample Dup	102
MB 580-327812/1-A	Method Blank	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

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

Lab Sample ID: MB 580-327895/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327909 — **Prep Batch: 327895**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		10	1.3	ug/Kg		05/07/20 10:00	05/07/20 12:56	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		05/07/20 10:00	05/07/20 12:56	1
m-Xylene & p-Xylene	ND		10	0.56	ug/Kg		05/07/20 10:00	05/07/20 12:56	1
o-Xylene	ND		5.0	0.92	ug/Kg		05/07/20 10:00	05/07/20 12:56	1
Xylenes, Total	ND		10	0.92	ug/Kg		05/07/20 10:00	05/07/20 12:56	1
Benzene	ND		2.0	0.39	ug/Kg		05/07/20 10:00	05/07/20 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*05/07/20 10:00*	*05/07/20 12:56*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*05/07/20 10:00*	*05/07/20 12:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 121*	*05/07/20 10:00*	*05/07/20 12:56*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*	*05/07/20 10:00*	*05/07/20 12:56*	*1*

Lab Sample ID: LCS 580-327895/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327909 — **Prep Batch: 327895**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	20.0	19.92		ug/Kg		100	75 - 137
Ethylbenzene	20.0	21.21		ug/Kg		106	80 - 135
m-Xylene & p-Xylene	20.0	22.37		ug/Kg		112	80 - 132
Methyl tert-butyl ether	20.0	22.24		ug/Kg		111	68 - 132
o-Xylene	20.0	22.45		ug/Kg		112	80 - 125
Xylenes, Total	40.0	44.82		ug/Kg		112	80 - 128
Benzene	20.0	20.28		ug/Kg		101	72 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*
Dibromofluoromethane (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-327895/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327909 — **Prep Batch: 327895**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	20.0	20.32		ug/Kg		102	75 - 137	2	20
Ethylbenzene	20.0	21.23		ug/Kg		106	80 - 135	0	16
m-Xylene & p-Xylene	20.0	22.11		ug/Kg		111	80 - 132	1	20
Methyl tert-butyl ether	20.0	22.95		ug/Kg		115	68 - 132	3	25
o-Xylene	20.0	22.52		ug/Kg		113	80 - 125	0	14
Xylenes, Total	40.0	44.63		ug/Kg		112	80 - 128	0	19
Benzene	20.0	20.93		ug/Kg		105	72 - 135	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

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

Lab Sample ID: LCSD 580-327895/3-A
Matrix: Solid
Analysis Batch: 327909

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 327895

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*
Dibromofluoromethane (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 580-328061/1-A
Matrix: Solid
Analysis Batch: 328065

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		40	9.1	ug/Kg		05/11/20 10:00	05/11/20 12:50	1
m-Xylene & p-Xylene	ND		200	15	ug/Kg		05/11/20 10:00	05/11/20 12:50	1
o-Xylene	ND		60	13	ug/Kg		05/11/20 10:00	05/11/20 12:50	1
Xylenes, Total	ND		200	15	ug/Kg		05/11/20 10:00	05/11/20 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*	*05/11/20 10:00*	*05/11/20 12:50*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*05/11/20 10:00*	*05/11/20 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*	*05/11/20 10:00*	*05/11/20 12:50*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 120*	*05/11/20 10:00*	*05/11/20 12:50*	*1*

Lab Sample ID: MB 580-328061/1-A
Matrix: Solid
Analysis Batch: 328154

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 328061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		30	3.8	ug/Kg		05/11/20 10:00	05/12/20 13:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*	*05/11/20 10:00*	*05/12/20 13:31*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*	*05/11/20 10:00*	*05/12/20 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*	*05/11/20 10:00*	*05/12/20 13:31*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*	*05/11/20 10:00*	*05/12/20 13:31*	*1*

Lab Sample ID: LCS 580-328061/2-A
Matrix: Solid
Analysis Batch: 328065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	800	802.2		ug/Kg		100	80 - 135
m-Xylene & p-Xylene	800	809.5		ug/Kg		101	80 - 132
o-Xylene	800	787.4		ug/Kg		98	80 - 125
Xylenes, Total	1600	1597		ug/Kg		100	80 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*

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

Lab Sample ID: LCS 580-328061/2-A
Matrix: Solid
Analysis Batch: 328065

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328061

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*95*		*80 - 120*

Lab Sample ID: LCS 580-328061/2-A
Matrix: Solid
Analysis Batch: 328154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 328061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	800	779.2		ug/Kg		97	72 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 121*
Dibromofluoromethane (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 580-328061/3-A
Matrix: Solid
Analysis Batch: 328065

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	800	812.6		ug/Kg		102	80 - 135	1	16
m-Xylene & p-Xylene	800	818.5		ug/Kg		102	80 - 132	1	20
o-Xylene	800	803.8		ug/Kg		100	80 - 125	2	14
Xylenes, Total	1600	1622		ug/Kg		101	80 - 128	2	19

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 121*
Dibromofluoromethane (Surr)	*95*		*80 - 120*

Lab Sample ID: LCSD 580-328061/3-A
Matrix: Solid
Analysis Batch: 328154

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 328061

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	800	776.3		ug/Kg		97	72 - 135	0	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*
Dibromofluoromethane (Surr)	*93*		*80 - 120*

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-327812/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327852 — **Prep Batch: 327812**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		5.0	2.3	mg/Kg		05/06/20 12:08	05/06/20 15:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*	*05/06/20 12:08*	*05/06/20 15:27*	*1*

Lab Sample ID: LCS 580-327812/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327852 — **Prep Batch: 327812**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	40.0	37.20		mg/Kg		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*

Lab Sample ID: LCSD 580-327812/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327852 — **Prep Batch: 327812**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	40.0	40.39		mg/Kg		101	80 - 120	8	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*

Method: 2540G - SM 2540G

Lab Sample ID: 580-94477-A-1 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 327766

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	19.8		19.8		%		0	20
Percent Moisture	80.2		80.2		%		0	20

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

GC/MS VOA

Prep Batch: 327895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-1	KLF-13-1-6'	Total/NA	Solid	5035	
570-27277-2	KLF-16-1-6'	Total/NA	Solid	5035	
570-27277-3	KLF-12-1-4'	Total/NA	Solid	5035	
570-27277-4	KLF-12-2-5'	Total/NA	Solid	5035	
570-27277-5	KLF-12-3-6'	Total/NA	Solid	5035	
570-27277-6	KLF-14-1-7.5'	Total/NA	Solid	5035	
570-27277-7	KLF-11-1-6'	Total/NA	Solid	5035	
570-27277-8	KLF-16-2-7'	Total/NA	Solid	5035	
MB 580-327895/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-327895/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-327895/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 327909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-1	KLF-13-1-6'	Total/NA	Solid	8260D	327895
570-27277-2	KLF-16-1-6'	Total/NA	Solid	8260D	327895
570-27277-3	KLF-12-1-4'	Total/NA	Solid	8260D	327895
570-27277-4	KLF-12-2-5'	Total/NA	Solid	8260D	327895
570-27277-5	KLF-12-3-6'	Total/NA	Solid	8260D	327895
570-27277-6	KLF-14-1-7.5'	Total/NA	Solid	8260D	327895
570-27277-7	KLF-11-1-6'	Total/NA	Solid	8260D	327895
570-27277-8	KLF-16-2-7'	Total/NA	Solid	8260D	327895
MB 580-327895/1-A	Method Blank	Total/NA	Solid	8260D	327895
LCS 580-327895/2-A	Lab Control Sample	Total/NA	Solid	8260D	327895
LCSD 580-327895/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	327895

Prep Batch: 328061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-2	KLF-16-1-6'	Total/NA	Solid	5035	
570-27277-8 - DL	KLF-16-2-7'	Total/NA	Solid	5035	
570-27277-8	KLF-16-2-7'	Total/NA	Solid	5035	
MB 580-328061/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-328061/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-328061/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 328065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-2	KLF-16-1-6'	Total/NA	Solid	8260D	328061
570-27277-8	KLF-16-2-7'	Total/NA	Solid	8260D	328061
570-27277-8 - DL	KLF-16-2-7'	Total/NA	Solid	8260D	328061
MB 580-328061/1-A	Method Blank	Total/NA	Solid	8260D	328061
LCS 580-328061/2-A	Lab Control Sample	Total/NA	Solid	8260D	328061
LCSD 580-328061/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	328061

Analysis Batch: 328154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-8	KLF-16-2-7'	Total/NA	Solid	8260D	328061
MB 580-328061/1-A	Method Blank	Total/NA	Solid	8260D	328061
LCS 580-328061/2-A	Lab Control Sample	Total/NA	Solid	8260D	328061
LCSD 580-328061/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	328061

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

GC VOA

Prep Batch: 327812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-1	KLF-13-1-6'	Total/NA	Solid	5035	
570-27277-2	KLF-16-1-6'	Total/NA	Solid	5035	
570-27277-4	KLF-12-2-5'	Total/NA	Solid	5035	
570-27277-5	KLF-12-3-6'	Total/NA	Solid	5035	
570-27277-6	KLF-14-1-7.5'	Total/NA	Solid	5035	
570-27277-7	KLF-11-1-6'	Total/NA	Solid	5035	
570-27277-8	KLF-16-2-7'	Total/NA	Solid	5035	
MB 580-327812/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-327812/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-327812/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 327852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-1	KLF-13-1-6'	Total/NA	Solid	NWTPH-Gx	327812
570-27277-2	KLF-16-1-6'	Total/NA	Solid	NWTPH-Gx	327812
570-27277-4	KLF-12-2-5'	Total/NA	Solid	NWTPH-Gx	327812
570-27277-5	KLF-12-3-6'	Total/NA	Solid	NWTPH-Gx	327812
570-27277-6	KLF-14-1-7.5'	Total/NA	Solid	NWTPH-Gx	327812
570-27277-7	KLF-11-1-6'	Total/NA	Solid	NWTPH-Gx	327812
MB 580-327812/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	327812
LCS 580-327812/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	327812
LCSD 580-327812/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	327812

Analysis Batch: 327994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-8	KLF-16-2-7'	Total/NA	Solid	NWTPH-Gx	327812

General Chemistry

Analysis Batch: 327766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27277-1	KLF-13-1-6'	Total/NA	Solid	2540G	
570-27277-2	KLF-16-1-6'	Total/NA	Solid	2540G	
570-27277-3	KLF-12-1-4'	Total/NA	Solid	2540G	
570-27277-4	KLF-12-2-5'	Total/NA	Solid	2540G	
570-27277-5	KLF-12-3-6'	Total/NA	Solid	2540G	
570-27277-6	KLF-14-1-7.5'	Total/NA	Solid	2540G	
570-27277-7	KLF-11-1-6'	Total/NA	Solid	2540G	
570-27277-8	KLF-16-2-7'	Total/NA	Solid	2540G	
580-94477-A-1 DU	Duplicate	Total/NA	Solid	2540G	

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Client Sample ID: KLF-13-1-6'
Date Collected: 04/29/20 13:10
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.216 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 15:16	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			6.121 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 17:03	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-16-1-6'
Date Collected: 04/29/20 11:01
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.034 g	10 mL	328061	05/11/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	328065	05/11/20 14:13	ASJ	TAL SEA
	Instrument ID:	SEA046								
Total/NA	Prep	5035			5.775 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 15:44	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			6.034 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 17:28	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-12-1-4'
Date Collected: 04/29/20 10:05
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.571 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 16:12	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-12-2-5'
Date Collected: 04/29/20 10:15
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.561 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 16:40	CJ	TAL SEA
	Instrument ID:	TAC036								

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Client Sample ID: KLF-12-2-5'
Date Collected: 04/29/20 10:15
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.405 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 17:52	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-12-3-6'
Date Collected: 04/29/20 10:30
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.034 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 17:08	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			5.81 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 18:17	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-14-1-7.5'
Date Collected: 04/29/20 08:50
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.06 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 17:36	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			5.894 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 18:41	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF-11-1-6'
Date Collected: 04/29/20 09:19
Date Received: 04/30/20 10:45

Lab Sample ID: 570-27277-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.727 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 18:04	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			6.697 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	327852	05/06/20 19:05	PRO	TAL SEA
	Instrument ID:	SEA006								

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Client Sample ID: KLF-11-1-6'

Lab Sample ID: 570-27277-7
Matrix: Solid
Date Collected: 04/29/20 09:19
Date Received: 04/30/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA

Client Sample ID: KLF-16-2-7'

Lab Sample ID: 570-27277-8
Matrix: Solid
Date Collected: 04/29/20 11:40
Date Received: 04/30/20 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.756 g	10 mL	328061	05/11/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	328065	05/11/20 14:41	ASJ	TAL SEA
	Instrument ID:	SEA046								
Total/NA	Prep	5035	DL		5.756 g	10 mL	328061	05/11/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D	DL	1	200 uL	43 mL	328065	05/11/20 15:43	ASJ	TAL SEA
	Instrument ID:	SEA046								
Total/NA	Prep	5035			5.82 g	5 mL	327895	04/30/20 14:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	327909	05/07/20 18:32	CJ	TAL SEA
	Instrument ID:	TAC036								
Total/NA	Prep	5035			5.756 g	10 mL	328061	05/11/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	328154	05/12/20 14:52	ASJ	TAL SEA
	Instrument ID:	TAC041								
Total/NA	Prep	5035			5.756 g	10 mL	327812	05/06/20 12:08	PRO	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	327994	05/08/20 14:02	PRO	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			327766	05/05/20 17:09	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-14-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-20-23
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21

Method Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL SEA
2540G	SM 2540G	SM22	TAL SEA
5035	Closed System Purge and Trap	SW846	TAL SEA

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-27277-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-27277-1	KLF-13-1-6'	Solid	04/29/20 13:10	04/30/20 10:45	
570-27277-2	KLF-16-1-6'	Solid	04/29/20 11:01	04/30/20 10:45	
570-27277-3	KLF-12-1-4'	Solid	04/29/20 10:05	04/30/20 10:45	
570-27277-4	KLF-12-2-5'	Solid	04/29/20 10:15	04/30/20 10:45	
570-27277-5	KLF-12-3-6'	Solid	04/29/20 10:30	04/30/20 10:45	
570-27277-6	KLF-14-1-7.5'	Solid	04/29/20 08:50	04/30/20 10:45	
570-27277-7	KLF-11-1-6'	Solid	04/29/20 09:19	04/30/20 10:45	
570-27277-8	KLF-16-2-7'	Solid	04/29/20 11:40	04/30/20 10:45	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Analytical Resources, Incorporated
Analytical Chemists and Consultants

18 May 2020

Celcile De Guia
Test America
7440 Lincoln Way
Garden Grove, CA 92841

RE: Exxon 72864

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
20E0024	N/A

Shelly Fishel
Digitally signed by Shelly Fishel
DN: c=US, st=Washington, l=Tukwila, o=Analytical Resources, Inc., cn=Shelly Fishel, email=shelly.fishel@arilabs.com
Date: 2020.05.18 14:55:35 -07'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cert# 100006

PJLA Testing
Accreditation # 66169

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

2060024

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lewis, Nathan A	Carrier Tracking No(s):	COC No: 580-76510.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: nathan.lewis@testamericainc.com	State of Origin: Washington	Page: Page 1 of 1
Company: Analytical Resources, Inc		Accreditations Required (See note):		Job #: 580-94383-1
Address: 4611 South 134th Place, Suite 100,	Due Date Requested: 5/18/2020			
City: Tukwila	TAT Requested (days):			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #:			
Email:	WO #:			
Project Name: Exxon 72864	Project #: 58013924			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Air/Vapor, Wipe)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B (MWH) - Purge Volatile - HPH	8260B (MWH) - Purge Volatile - VPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
KLF-13-1-6'	4/29/20	13:10 Pacific		Solid			X	X	1	
KLF-16-1-6'	4/29/20	11:01 Pacific		Solid			X	X	1	
KLF-12-2-5'	4/29/20	10:15 Pacific		Solid			X	X	1	
KLF-12-3-6'	4/29/20	10:30 Pacific		Solid			X	X	1	
KLF-14-1-7.5'	4/29/20	08:50 Pacific		Solid			X	X	1	
KLF-11-1-6'	4/29/20	09:19 Pacific		Solid			X	X	1	
KLF-16-2-7'	4/29/20	11:40 Pacific		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification Unconfirmed	**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by: Q Powell	Date/Time: 05/14/20 1:19	Company: DEX	Received by: [illegible]	Date/Time: 05/14/2020 1319	Company: ARI 1.91
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Page 2 of 25 20E0024 ARISample FINAL 18 May 2020 1452

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KLF-13-1-6'	20E0024-01	Solid	29-Apr-2020 13:10	04-May-2020 13:19
KLF-16-1-6'	20E0024-02	Solid	29-Apr-2020 11:01	04-May-2020 13:19
KLF-12-2-5'	20E0024-03	Solid	29-Apr-2020 10:15	04-May-2020 13:19
KLF-12-3-6'	20E0024-04	Solid	29-Apr-2020 10:30	04-May-2020 13:19
KLF-14-1-7.5'	20E0024-05	Solid	29-Apr-2020 08:50	04-May-2020 13:19
KLF-11-1-6'	20E0024-06	Solid	29-Apr-2020 09:19	04-May-2020 13:19
KLF-16-2-7'	20E0024-07	Solid	29-Apr-2020 11:40	04-May-2020 13:19

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received May 4, 2020 under ARI work order 20E0024. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Extractable Organic Hydrocarbons - WA-Ecology

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Volatile Petroleum Hydrocarbons - WA-Ecology VPH

The sample(s) were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The LCS percent recoveries were within control limits.

Note that per the method, the C12-C13 Aromatic range for the VPH should only be used when VPH is run without an accompanying EPH method request.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins TestAmerica

Project Name: Exxon 72864

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20E0024

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES (NO)

Were custody papers included with the cooler? ..... (YES) NO

Were custody papers properly filled out (ink, signed, etc.) ..... (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1319 1.9°C ___ ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5206

Cooler Accepted by: JB Date: 05/04/2020 Time: 1319

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? ..... (YES) NO

What kind of packing material was used? ... (Bubble Wrap) Wet Ice (Gel Packs) Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? ..... NA (YES) NO

How were bottles sealed in plastic bags? ..... Individually Grouped (Not)

Did all bottles arrive in good condition (unbroken)? ..... (YES) NO

Were all bottle labels complete and legible? ..... (YES) NO

Did the number of containers listed on COC match with the number of containers received? ..... YES (NO)

Did all bottle labels and tags agree with custody papers? ..... (YES) NO

Were all bottles used correct for the requested analyses? ..... (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... (NA) YES NO

Were all VOC vials free of air bubbles? ..... (NA) YES NO

Was sufficient amount of sample sent in each bottle? ..... (YES) NO

Date VOC Trip Blank was made at ARI ..... (NA) _____

Were the sample(s) split by ARI? (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JB Date: 05/04/2020 Time: 1607 Labels checked by: JB

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
KLF-12-1-4'	Not listed on CoC		

Additional Notes, Discrepancies, & Resolutions:

Above sample is not listed on clients CoC, logged as final sample in the work order

By: JB Date: 05/04/2020

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-13-1-6'

20E0024-01 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 13:10

Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 17:54

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-01 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:8.81 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 88.14

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-01 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2270	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2270	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2270	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2270	ND	ug/kg	U
C21-C34 Aliphatics	ALI-C21-C34	1	2270	43800	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*49.2*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2270	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2270	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2270	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2270	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2270	27000	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*57.1*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-13-1-6'

20E0024-01 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 13:10

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 13:48

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-01 A

Preparation Batch: BIE0087 — Sample Size: 5.14 g (wet) — Dry Weight:4.53 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 88.14

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	11100	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	11100	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	11100	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	11100	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	11100	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	11100	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	11100	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	1110	ND	ug/kg	U
Benzene	71-43-2	180	1110	ND	ug/kg	U
Toluene	108-88-3	180	1110	ND	ug/kg	U
Ethylbenzene	100-41-4	180	1110	ND	ug/kg	U
m,p-Xylene	179601-23-1	180	2230	ND	ug/kg	U
o-Xylene	95-47-6	180	1110	ND	ug/kg	U
1,2,3-Trimethylbenzene	526-73-8	180	1110	ND	ug/kg	U
Naphthalene	91-20-3	180	1110	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	180	1110	ND	ug/kg	U
n-Pentane	109-66-0	180	1110	ND	ug/kg	U
n-Hexane	110-54-3	180	1110	ND	ug/kg	U
n-Octane	111-65-9	180	1110	ND	ug/kg	U
n-Decane	124-18-5	180	1110	ND	ug/kg	U
n-Dodecane	112-40-3	180	1110	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*60.4*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*65.4*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-16-1-6'

20E0024-02 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 11:01
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 18:36

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-02 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:7.77 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 77.74

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-02 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2570	49900	ug/kg	
C10-C12 Aliphatics	ALI-C10-C12	1	2570	59300	ug/kg	
C12-C16 Aliphatics	ALI-C12-C16	1	2570	23200	ug/kg	
C16-C21 Aliphatics	ALI-C16-C21	1	2570	10800	ug/kg	
C21-C34 Aliphatics	ALI-C21-C34	1	2570	232000	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*49.5*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2570	4750	ug/kg	
C10-C12 Aromatics	ARO-C10-C12	1	2570	7500	ug/kg	
C12-C16 Aromatics	ARO-C12-C16	1	2570	11100	ug/kg	
C16-C21 Aromatics	ARO-C16-C21	1	2570	6230	ug/kg	
C21-C34 Aromatics	ARO-C21-C34	1	2570	135000	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*62.7*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-16-1-6'

20E0024-02 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 11:01

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 14:18

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-02 A

Preparation Batch: BIE0087 — Sample Size: 5.6 g (wet) — Dry Weight:4.35 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 77.74

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	12900	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	12900	64200	ug/kg	
C8-C10 Aliphatics	ALI-C8-C10	180	12900	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	12900	173000	ug/kg	
C8-C10 Aromatics	ARO-C8-C10	180	12900	116000	ug/kg	
C10-C12 Aromatics	ARO-C10-C12	180	12900	50300	ug/kg	
C12-C13 Aromatics	ARO-C12-C13	180	12900	15700	ug/kg	
Methyl tert-butyl Ether	1634-04-4	180	1290	ND	ug/kg	U
Benzene	71-43-2	180	1290	ND	ug/kg	U
Toluene	108-88-3	180	1290	ND	ug/kg	U
Ethylbenzene	100-41-4	180	1290	4800	ug/kg	
m,p-Xylene	179601-23-1	180	2580	13500	ug/kg	
o-Xylene	95-47-6	180	1290	1600	ug/kg	
1,2,3-Trimethylbenzene	526-73-8	180	1290	7520	ug/kg	
Naphthalene	91-20-3	180	1290	5290	ug/kg	
1-Methylnaphthalene	90-12-0	180	1290	2890	ug/kg	
n-Pentane	109-66-0	180	1290	ND	ug/kg	U
n-Hexane	110-54-3	180	1290	1420	ug/kg	
n-Octane	111-65-9	180	1290	4180	ug/kg	
n-Decane	124-18-5	180	1290	4210	ug/kg	
n-Dodecane	112-40-3	180	1290	10500	ug/kg	
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*75.6*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*82.6*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-12-2-5'

20E0024-03 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 10:15
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 19:18

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-03 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:9.62 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 96.24

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-03 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2080	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2080	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2080	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2080	3940	ug/kg	
C21-C34 Aliphatics	ALI-C21-C34	1	2080	124000	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*47.7*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2080	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2080	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2080	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2080	3180	ug/kg	
C21-C34 Aromatics	ARO-C21-C34	1	2080	92000	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*60.1*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-12-2-5'

20E0024-03 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 10:15

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 14:47

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-03 A

Preparation Batch: BIE0087 — Sample Size: 5.5 g (wet) — Dry Weight:5.29 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 96.24

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	8850	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	8850	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	8850	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	8850	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	8850	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	8850	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	8850	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	885	ND	ug/kg	U
Benzene	71-43-2	180	885	ND	ug/kg	U
Toluene	108-88-3	180	885	ND	ug/kg	U
Ethylbenzene	100-41-4	180	885	ND	ug/kg	U
m,p-Xylene	179601-23-1	180	1770	ND	ug/kg	U
o-Xylene	95-47-6	180	885	ND	ug/kg	U
1,2,3-Trimethylbenzene	526-73-8	180	885	ND	ug/kg	U
Naphthalene	91-20-3	180	885	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	180	885	ND	ug/kg	U
n-Pentane	109-66-0	180	885	956	ug/kg	
n-Hexane	110-54-3	180	885	ND	ug/kg	U
n-Octane	111-65-9	180	885	ND	ug/kg	U
n-Decane	124-18-5	180	885	ND	ug/kg	U
n-Dodecane	112-40-3	180	885	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*66.0*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*63.8*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-12-3-6'

20E0024-04 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 10:30
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 19:59

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-04 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:9.52 g
Prepared: 05/07/2020 — Final Volume: 10 mL — % Solids: 95.23

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-04 A 01
Cleanup Batch: CIE0057 — Initial Volume: 10 mL
Cleaned: 11-May-2020 — Final Volume: 10 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	21000	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	21000	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	21000	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	21000	21400	ug/kg	
C21-C34 Aliphatics	ALI-C21-C34	1	21000	630000	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*52.7*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	21000	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	21000	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	21000	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	21000	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	21000	452000	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*58.7*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-12-3-6'

20E0024-04 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 10:30

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 15:16

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-04 A

Preparation Batch: BIE0087 — Sample Size: 5.6 g (wet) — Dry Weight:5.33 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 95.23

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	8890	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	8890	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	8890	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	8890	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	8890	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	8890	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	8890	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	889	ND	ug/kg	U
Benzene	71-43-2	180	889	ND	ug/kg	U
Toluene	108-88-3	180	889	ND	ug/kg	U
Ethylbenzene	100-41-4	180	889	ND	ug/kg	U
m,p-Xylene	179601-23-1	180	1780	ND	ug/kg	U
o-Xylene	95-47-6	180	889	ND	ug/kg	U
1,2,3-Trimethylbenzene	526-73-8	180	889	ND	ug/kg	U
Naphthalene	91-20-3	180	889	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	180	889	ND	ug/kg	U
n-Pentane	109-66-0	180	889	ND	ug/kg	U
n-Hexane	110-54-3	180	889	ND	ug/kg	U
n-Octane	111-65-9	180	889	ND	ug/kg	U
n-Decane	124-18-5	180	889	ND	ug/kg	U
n-Dodecane	112-40-3	180	889	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*86.2*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*82.8*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-14-1-7.5'

20E0024-05 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 08:50
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 20:41

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-05 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:8.29 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 82.87

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-05 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2410	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2410	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2410	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2410	ND	ug/kg	U
C21-C34 Aliphatics	ALI-C21-C34	1	2410	17400	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*59.9*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2410	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2410	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2410	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2410	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2410	15300	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*65.8*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-14-1-7.5'

20E0024-05 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 08:50

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 15:46

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-05 A

Preparation Batch: BIE0087 — Sample Size: 5.52 g (wet) — Dry Weight:4.57 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 82.87

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	11700	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	11700	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	11700	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	11700	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	11700	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	11700	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	11700	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	1170	ND	ug/kg	U
Benzene	71-43-2	180	1170	ND	ug/kg	U
Toluene	108-88-3	180	1170	ND	ug/kg	U
Ethylbenzene	100-41-4	180	1170	ND	ug/kg	U
m,p-Xylene	179601-23-1	180	2340	ND	ug/kg	U
o-Xylene	95-47-6	180	1170	ND	ug/kg	U
1,2,3-Trimethylbenzene	526-73-8	180	1170	ND	ug/kg	U
Naphthalene	91-20-3	180	1170	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	180	1170	ND	ug/kg	U
n-Pentane	109-66-0	180	1170	ND	ug/kg	U
n-Hexane	110-54-3	180	1170	ND	ug/kg	U
n-Octane	111-65-9	180	1170	ND	ug/kg	U
n-Decane	124-18-5	180	1170	ND	ug/kg	U
n-Dodecane	112-40-3	180	1170	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*82.6*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*81.4*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-11-1-6'

20E0024-06 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 09:19
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 21:22

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-06 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:8.99 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 89.93

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-06 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2220	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2220	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2220	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2220	ND	ug/kg	U
C21-C34 Aliphatics	ALI-C21-C34	1	2220	28000	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*51.1*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2220	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2220	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2220	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2220	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2220	18700	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*62.6*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-11-1-6'

20E0024-06 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 09:19

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 16:15

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-06 A

Preparation Batch: BIE0087 — Sample Size: 5.33 g (wet) — Dry Weight:4.79 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 89.93

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	10400	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	10400	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	10400	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	10400	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	10400	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	10400	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	10400	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	1040	ND	ug/kg	U
Benzene	71-43-2	180	1040	ND	ug/kg	U
Toluene	108-88-3	180	1040	ND	ug/kg	U
Ethylbenzene	100-41-4	180	1040	ND	ug/kg	U
m,p-Xylene	179601-23-1	180	2080	ND	ug/kg	U
o-Xylene	95-47-6	180	1040	ND	ug/kg	U
1,2,3-Trimethylbenzene	526-73-8	180	1040	ND	ug/kg	U
Naphthalene	91-20-3	180	1040	ND	ug/kg	U
1-Methylnaphthalene	90-12-0	180	1040	ND	ug/kg	U
n-Pentane	109-66-0	180	1040	ND	ug/kg	U
n-Hexane	110-54-3	180	1040	ND	ug/kg	U
n-Octane	111-65-9	180	1040	ND	ug/kg	U
n-Decane	124-18-5	180	1040	ND	ug/kg	U
n-Dodecane	112-40-3	180	1040	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*85.4*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*91.2*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-16-2-7'

20E0024-07 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 04/29/2020 11:40
Instrument: FID8 Analyst: JGR — Analyzed: 05/12/2020 22:04

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20E0024-07 A 01
Preparation Batch: BIE0111 — Sample Size: 10 g (wet) — Dry Weight:7.47 g
Prepared: 05/07/2020 — Final Volume: 1 mL — % Solids: 74.68

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20E0024-07 A 01
Cleanup Batch: CIE0057 — Initial Volume: 1 mL
Cleaned: 11-May-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2680	42100	ug/kg	
C10-C12 Aliphatics	ALI-C10-C12	1	2680	22500	ug/kg	
C12-C16 Aliphatics	ALI-C12-C16	1	2680	8090	ug/kg	
C16-C21 Aliphatics	ALI-C16-C21	1	2680	10500	ug/kg	
C21-C34 Aliphatics	ALI-C21-C34	1	2680	223000	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*50.1*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2680	8180	ug/kg	
C10-C12 Aromatics	ARO-C10-C12	1	2680	7500	ug/kg	
C12-C16 Aromatics	ARO-C12-C16	1	2680	6760	ug/kg	
C16-C21 Aromatics	ARO-C16-C21	1	2680	8580	ug/kg	
C21-C34 Aromatics	ARO-C21-C34	1	2680	138000	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*60.9*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

KLF-16-2-7'

20E0024-07 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 04/29/2020 11:40

Instrument: PID1 Analyst: PKC — Analyzed: 05/06/2020 17:13

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20E0024-07 A

Preparation Batch: BIE0087 — Sample Size: 5.41 g (wet) — Dry Weight:4.04 g

Prepared: 05/06/2020 — Final Volume: 5 mL — % Solids: 74.68

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	14200	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	14200	106000	ug/kg	
C8-C10 Aliphatics	ALI-C8-C10	180	14200	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	14200	157000	ug/kg	
C8-C10 Aromatics	ARO-C8-C10	180	14200	119000	ug/kg	
C10-C12 Aromatics	ARO-C10-C12	180	14200	39500	ug/kg	
C12-C13 Aromatics	ARO-C12-C13	180	14200	ND	ug/kg	U
Methyl tert-butyl Ether	1634-04-4	180	1420	ND	ug/kg	U
Benzene	71-43-2	180	1420	ND	ug/kg	U
Toluene	108-88-3	180	1420	ND	ug/kg	U
Ethylbenzene	100-41-4	180	1420	6750	ug/kg	
m,p-Xylene	179601-23-1	180	2840	19300	ug/kg	
o-Xylene	95-47-6	180	1420	2780	ug/kg	
1,2,3-Trimethylbenzene	526-73-8	180	1420	6610	ug/kg	
Naphthalene	91-20-3	180	1420	3600	ug/kg	
1-Methylnaphthalene	90-12-0	180	1420	1790	ug/kg	
n-Pentane	109-66-0	180	1420	ND	ug/kg	U
n-Hexane	110-54-3	180	1420	4740	ug/kg	
n-Octane	111-65-9	180	1420	4820	ug/kg	
n-Decane	124-18-5	180	1420	3750	ug/kg	
n-Dodecane	112-40-3	180	1420	7860	ug/kg	
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*94.2*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*93.6*	*%*	

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Washington Department of Ecology Methods - Quality Control

Batch BIE0087 - EPA 5035 (Methanol Extraction)

Instrument: PID1 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0087-BLK1)				Prepared: 06-May-2020 Analyzed: 06-May-2020 10:35						
C5-C6 Aliphatics	ND	9000	ug/kg							U
C6-C8 Aliphatics	ND	9000	ug/kg							U
C8-C10 Aliphatics	ND	9000	ug/kg							U
C10-C12 Aliphatics	ND	9000	ug/kg							U
C8-C10 Aromatics	ND	9000	ug/kg							U
C10-C12 Aromatics	ND	9000	ug/kg							U
C12-C13 Aromatics	ND	9000	ug/kg							U
Methyl tert-butyl Ether	ND	900	ug/kg							U
Benzene	ND	900	ug/kg							U
Toluene	ND	900	ug/kg							U
Ethylbenzene	ND	900	ug/kg							U
m,p-Xylene	ND	1800	ug/kg							U
o-Xylene	ND	900	ug/kg							U
1,2,3-Trimethylbenzene	ND	900	ug/kg							U
Naphthalene	ND	900	ug/kg							U
1-Methylnaphthalene	ND	900	ug/kg							U
n-Pentane	ND	900	ug/kg							U
n-Hexane	ND	900	ug/kg							U
n-Octane	ND	900	ug/kg							U
n-Decane	ND	900	ug/kg							U
n-Dodecane	ND	900	ug/kg							U
Surrogate: PID: 2,5-Dibromotoluene	36.8		ug/kg	*50.0*		*73.6*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	36.4		ug/kg	*50.0*		*72.8*	*60-140*			
LCS (BIE0087-BS1)				Prepared: 06-May-2020 Analyzed: 06-May-2020 09:17						
Methyl tert-butyl Ether	8480	900	ug/kg	9000		94.2	70-130			
Benzene	9140	900	ug/kg	9000		102	70-130			
Toluene	7970	900	ug/kg	9000		88.6	70-130			
Ethylbenzene	7990	900	ug/kg	9000		88.8	70-130			
m,p-Xylene	15900	1800	ug/kg	18000		88.6	70-130			
o-Xylene	8170	900	ug/kg	9000		90.8	70-130			
1,2,3-Trimethylbenzene	9500	900	ug/kg	9000		106	70-130			
Naphthalene	8550	900	ug/kg	9000		95.0	70-130			
1-Methylnaphthalene	8710	900	ug/kg	9000		96.8	70-130			
n-Pentane	7110	900	ug/kg	9000		79.0	70-130			

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Washington Department of Ecology Methods - Quality Control

Batch BIE0087 - EPA 5035 (Methanol Extraction)

Instrument: PID1 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIE0087-BS1)				Prepared: 06-May-2020 Analyzed: 06-May-2020 09:17						
n-Hexane	8170	900	ug/kg	9000		90.8	70-130			
n-Octane	6970	900	ug/kg	9000		77.4	70-130			
n-Decane	7380	900	ug/kg	9000		82.0	70-130			
n-Dodecane	9700	900	ug/kg	9000		108	70-130			
Surrogate: PID: 2,5-Dibromotoluene	48.9		ug/kg	*50.0*		*97.8*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	48.7		ug/kg	*50.0*		*97.4*	*60-140*			
LCS Dup (BIE0087-BSD1)				Prepared: 06-May-2020 Analyzed: 06-May-2020 10:06						
Methyl tert-butyl Ether	8530	900	ug/kg	9000		94.8	70-130	0.64	30	
Benzene	9180	900	ug/kg	9000		102	70-130	0.39	30	
Toluene	8030	900	ug/kg	9000		89.2	70-130	0.68	30	
Ethylbenzene	8010	900	ug/kg	9000		89.0	70-130	0.23	30	
m,p-Xylene	16000	1800	ug/kg	18000		88.9	70-130	0.34	30	
o-Xylene	8210	900	ug/kg	9000		91.2	70-130	0.44	30	
1,2,3-Trimethylbenzene	9470	900	ug/kg	9000		105	70-130	0.38	30	
Naphthalene	8120	900	ug/kg	9000		90.2	70-130	5.18	30	
1-Methylnaphthalene	8210	900	ug/kg	9000		91.2	70-130	5.96	30	
n-Pentane	7400	900	ug/kg	9000		82.2	70-130	3.97	30	
n-Hexane	8190	900	ug/kg	9000		91.0	70-130	0.22	30	
n-Octane	7220	900	ug/kg	9000		80.2	70-130	3.55	30	
n-Decane	7870	900	ug/kg	9000		87.4	70-130	6.38	30	
n-Dodecane	9340	900	ug/kg	9000		104	70-130	3.78	30	
Surrogate: PID: 2,5-Dibromotoluene	47.7		ug/kg	*50.0*		*95.4*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	45.3		ug/kg	*50.0*		*90.6*	*60-140*			

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Washington Department of Ecology Methods - Quality Control

Batch BIE0111 - EPA 3546 (Microwave)

Instrument: FID8 Analyst: JGR

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIE0111-BLK1)				Prepared: 07-May-2020	Analyzed: 12-May-2020 17:13					
C8-C10 Aliphatics	ND	2000	ug/kg							U
C10-C12 Aliphatics	ND	2000	ug/kg							U
C12-C16 Aliphatics	ND	2000	ug/kg							U
C16-C21 Aliphatics	ND	2000	ug/kg							U
C21-C34 Aliphatics	ND	2000	ug/kg							U
Surrogate: 1-Chloro-octadecane	8800		ug/kg	*15000*		*58.7*	*30-160*			
Blank (BIE0111-BLK2)				Prepared: 07-May-2020	Analyzed: 11-May-2020 12:47					
C8-C10 Aromatics	ND	2000	ug/kg							U
C10-C12 Aromatics	ND	2000	ug/kg							U
C12-C16 Aromatics	ND	2000	ug/kg							U
C16-C21 Aromatics	ND	2000	ug/kg							U
C21-C34 Aromatics	ND	2000	ug/kg							U
Surrogate: o-Terphenyl	9180		ug/kg	*15000*		*61.2*	*30-160*			
LCS (BIE0111-BS1)				Prepared: 07-May-2020	Analyzed: 12-May-2020 17:33					
C8-C10 Aliphatics	6880	2000	ug/kg	15000		45.9	30-160			
C10-C12 Aliphatics	8670	2000	ug/kg	15000		57.8	30-160			
C12-C16 Aliphatics	9330	2000	ug/kg	15000		62.2	30-160			
C16-C21 Aliphatics	11000	2000	ug/kg	15000		73.5	30-160			
C21-C34 Aliphatics	9260	2000	ug/kg	15000		61.7	30-160			
Surrogate: 1-Chloro-octadecane	9400		ug/kg	*15000*		*62.7*	*30-160*			
LCS (BIE0111-BS2)				Prepared: 07-May-2020	Analyzed: 11-May-2020 13:08					
C10-C12 Aromatics	7130	2000	ug/kg	15000		47.5	30-160			
C12-C16 Aromatics	8220	2000	ug/kg	15000		54.8	30-160			
C16-C21 Aromatics	22900	2000	ug/kg	30000		76.5	30-160			
C21-C34 Aromatics	10400	2000	ug/kg	15000		69.2	30-160			
Surrogate: o-Terphenyl	9740		ug/kg	*15000*		*64.9*	*30-160*			

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Certified Analyses included in this Report

Analyte	Certifications
WA EPH in Solid	
C8-C10 Aliphatics	WADOE,DoD-ELAP,NELAP
C10-C12 Aliphatics	WADOE,DoD-ELAP,NELAP
C12-C16 Aliphatics	WADOE,DoD-ELAP,NELAP
C16-C21 Aliphatics	WADOE,DoD-ELAP,NELAP
C21-C34 Aliphatics	WADOE,DoD-ELAP,NELAP
C8-C10 Aromatics	DoD-ELAP,NELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,NELAP,WADOE
C12-C16 Aromatics	DoD-ELAP,NELAP,WADOE
C16-C21 Aromatics	DoD-ELAP,NELAP,WADOE
C21-C34 Aromatics	DoD-ELAP,NELAP,WADOE
WA VPH in Solid	
C5-C6 Aliphatics	DoD-ELAP,WADOE
C6-C8 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aliphatics	DoD-ELAP,WADOE
C10-C12 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,WADOE
C12-C13 Aromatics	DoD-ELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,WADOE
Benzene	DoD-ELAP,WADOE
Toluene	DoD-ELAP,WADOE
Ethylbenzene	DoD-ELAP,WADOE
m,p-Xylene	DoD-ELAP,WADOE
o-Xylene	DoD-ELAP,WADOE
1,2,3-Trimethylbenzene	DoD-ELAP,WADOE
Naphthalene	DoD-ELAP,WADOE
1-Methylnaphthalene	DoD-ELAP,WADOE
n-Pentane	DoD-ELAP
n-Hexane	DoD-ELAP
n-Octane	DoD-ELAP
n-Decane	DoD-ELAP
n-Dodecane	DoD-ELAP
PID: 2,5-Dibromotoluene	WADOE

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021
NELAP	ORELAP - Oregon Laboratory Accreditation Program	WA100006-012	05/12/2020
WADOE	WA Dept of Ecology	C558	06/30/2020
WA-DW	Ecology - Drinking Water	C558	06/30/2020

Test America	Project: Exxon 72864	
7440 Lincoln Way	Project Number: 570-27277	**Reported:**
Garden Grove CA, 92841	Project Manager: Celcile De Guia	18-May-2020 14:52

Notes and Definitions

*	Flagged value is not within established control limits.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

Cecile L de Guia

From: Wesley Willow <WWillow@kleinfelder.com>
Sent: Tuesday, May 5, 2020 8:51 AM
To: Cecile L de Guia
Cc: Miriam Stein
Subject: Re: Eurofins Calscience sample confirmation files from 570-27277-1 Former ExxonMobil 72864 - Cecile
Attachments: ATT00001.jpg; ATT00002.jpg

EXTERNAL EMAIL*

Hi Cecile,
Please run the trip blank for BTEX. Also please run the analysis.
Thank you,

Wesley Willow
Project Manager

Canada:
M| + (1) 587.962.4023

USA:
2280 Market Street, Suite 300
Riverside, CA 92501
M| + (1) 724.612.0003
D| + (1) 951.801.3719
O| + (1) 951.801.3681
F| + (1) 951.682.0192

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Your cooperation is appreciated. Thank you.

On May 4, 2020, at 8:28 PM, Cecile L de Guia <CecileLdeGuia@eurofinsus.com> wrote:

Good afternoon,
Please note that TA-Seattle received Trip Blank vials but was not listed on the COC. Please advise what should be the analyses for Trip Blanks?

In addition, the samples were received outside of temperature criteria. Please advise if we should proceed with the analyses?

Thank you.

From: Cecile de Guia [mailto:noreply@eurofinslimsservices.com]
Sent: Monday, May 4, 2020 5:31 PM
To: Cecile L de Guia
Subject: Eurofins Calscience sample confirmation files from 570-27277-1 Former ExxonMobil 72864 - Cecile

EXTERNAL EMAIL*

Hello,

Attached please find the sample confirmation files for job 570-27277-1; Former ExxonMobil 72864

Please feel free to contact me if you have any questions.

Thank you.

Cecile de Guia
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: ceciledeguia@eurofinsus.com
www.eurofinsus.com/env

<ATT00001.jpg>

<ATT00002.jpg>

Reference: [570-091109]
Attachments: 1

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<SampleLoginAck_570-27277-1 [Std_Tal_Login_Ack].pdf>

Eurofins TestAmerica, Seattle

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone (425) 883-3881 • www.onsite-env.com

Chain of Custody

Lab PM: Lewis, Nathan A

Page 1 of 1

Company: Kleinfelder
Project Number: 20171319 (58013924)
Project Name: Exxon 72864
Project Manager: Wesley Willow (724-612-0003)
Sampled by: Brett O'Brien (360-333-8925)

Turnaround Request (in working days) (Check One)
- ☐ Same Day
- ☐ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☒ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	Benzene	BTEX, TPH-g, VPH, EPH	BTEX, TPH-g		% Moisture
	KLF-13-1-6'	4-29-20	1310		6																			X			
	KLF-16-1-6'		1101		6																			X			
	KLF-12-1-4'		1005		6																		X				
	KLF-12-2-5'		1015		6																			X			
	KLF-12-3-6'		1030		6																			X			
	KLF-14-1-7.5'		0850		6																			X			
	KLF-11-1-6'		0919		6																			X			
	KLF-16-2-7'	↓	1140		6																			X			

Loc: 580
94383

580-94383 Chain of Custody

	Signature	Company	Date	Time
Relinquished	[signature]	Kleinfelder	4/29/20	1600
Received	[signature]	TASea	4-30-20	1045
Relinquished				
Received				

Comments/Special Instructions:
Email Results / contact
Wesley Willow
WWillow@Kleinfelder.com

Therm. ID: 7 Cor: 11.6 ° Unc: 11.4 °
Cooler Dec: SB
Packing: —
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Courier: ___
Other: USPS

Reviewed/Date

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Cecile L de Guia

From: Wesley Willow <WWillow@kleinfelder.com>
Sent: Wednesday, July 1, 2020 11:35 AM
To: Cecile L de Guia
Subject: J27277-1
Attachments: J27277-1 UDS Level 2 Report Final Report.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL EMAIL*

Hi Cecile,
We were unable to locate the Benzene result for KLF-16-1-6' in lab report J27277-1. Let me know if you can find it or if the report will need to be re-issued.
Thank you,

Wesley L. Willow
Project Manager

Canada:
M| +(1) 587.962.4023

USA:
2280 Market Street, Suite 300
Riverside, CA 92501
M| + (1) 724.612.0003
D| + (1) 951.801.3719
O| + (1) 951.801.3681
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Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-27277-1

Login Number: 27277
List Number: 1
Creator: Cruise, Noel

List Source: Eurofins Calscience

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

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-27277-1

Login Number: 27277
List Number: 2
Creator: Hobbs, Kenneth F

List Source: Eurofins TestAmerica, Seattle
List Creation: 05/05/20 03:15 PM

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

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-27277-1

Login Number: 27277
List Number: 4
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 05/12/20 01:07 PM

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-35471-1
Client Project/Site: Former ExxonMobil 72864

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
9/15/2020 10:01:17 AM

Cecile de Guia, Project Manager I
(714)895-5494
Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

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

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 570-35471-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-35471-1

Comments
No additional comments.

Receipt
The samples were received on 8/10/2020 5:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions
The 4oz bulk soil jar for the following sample was received with no container label and no identification on the container as to the sample. This jar was in the same bag as the methanol vials and sodium bisulfate vials so it is assumed to be the container for the following sample: KLF 3-6 (570-35471-1).

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples was outside control limits: KLF 4-7 (570-35471-4) and KLF 5 (570-35471-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 580-335626 recovered above the upper control limit for Methyl tert-butyl ether. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The associated samples are impacted: KLF 6 (570-35471-6), KLF 5 (570-35471-7) and (CCVIS 580-335626/3).

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

GC VOA
Method NWTPH-Gx: The following samples were analyzed at reduced volume due to high concentrations of target analytes: KLF 4-7 (570-35471-4) and KLF 5 (570-35471-7). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.

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

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

VOA Prep
Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF 3-6 (570-35471-1), KLF 3-5 (570-35471-2), KLF 4-5 (570-35471-3), KLF 4-7 (570-35471-4), KLF 2-5 (570-35471-5), KLF 6 (570-35471-6) and KLF 5 (570-35471-7). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

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

Detection Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Client Sample ID: KLF 3-6 — Lab Sample ID: 570-35471-1

No Detections.

Client Sample ID: KLF 3-5 — Lab Sample ID: 570-35471-2

No Detections.

Client Sample ID: KLF 4-5 — Lab Sample ID: 570-35471-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.33	J	0.67	0.13	ug/Kg	1		8260D	Total/NA
Toluene	0.57	J	3.4	0.44	ug/Kg	1		8260D	Total/NA
Ethylbenzene	0.20	J	0.67	0.14	ug/Kg	1		8260D	Total/NA
p/m-Xylene	0.62	J	3.4	0.19	ug/Kg	1		8260D	Total/NA
Xylenes, Total	0.62	J	3.4	0.31	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	2.3		1.6	0.73	mg/Kg	1		NWTPH-Gx	Total/NA

Client Sample ID: KLF 4-7 — Lab Sample ID: 570-35471-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.63	J	0.84	0.16	ug/Kg	1		8260D	Total/NA
Ethylbenzene	2.2		0.84	0.17	ug/Kg	1		8260D	Total/NA
p/m-Xylene	1.3	J	4.2	0.24	ug/Kg	1		8260D	Total/NA
Xylenes, Total	1.3	J	4.2	0.39	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	160		10	4.6	mg/Kg	1		NWTPH-Gx	Total/NA

Client Sample ID: KLF 2-5 — Lab Sample ID: 570-35471-5

No Detections.

Client Sample ID: KLF 6 — Lab Sample ID: 570-35471-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6		1.0	0.20	ug/Kg	1		8260D	Total/NA
p/m-Xylene	1.6	J	5.2	0.29	ug/Kg	1		8260D	Total/NA
Xylenes, Total	1.6	J	5.2	0.48	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	3.5	J	4.6	2.1	mg/Kg	1		NWTPH-Gx	Total/NA

Client Sample ID: KLF 5 — Lab Sample ID: 570-35471-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.9	J	14	1.8	ug/Kg	1		8260D	Total/NA
Toluene	8.1	J	70	6.3	ug/Kg	1		8260D	Total/NA
Ethylbenzene	560		19	4.3	ug/Kg	1		8260D	Total/NA
p/m-Xylene	29	J	93	7.0	ug/Kg	1		8260D	Total/NA
Xylenes, Total	29	J	93	7.0	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	120		13	5.8	mg/Kg	1		NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

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

Client Sample ID: KLF 3-6
Date Collected: 08/10/20 13:27
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.2	0.24	ug/Kg		08/10/20 17:00	08/13/20 16:56	1
Toluene	ND		6.1	0.80	ug/Kg		08/10/20 17:00	08/13/20 16:56	1
Ethylbenzene	ND		1.2	0.25	ug/Kg		08/10/20 17:00	08/13/20 16:56	1
p/m-Xylene	ND		6.1	0.34	ug/Kg		08/10/20 17:00	08/13/20 16:56	1
o-Xylene	ND		3.1	0.56	ug/Kg		08/10/20 17:00	08/13/20 16:56	1
Xylenes, Total	ND		6.1	0.56	ug/Kg		08/10/20 17:00	08/13/20 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*80 - 121*	*08/10/20 17:00*	*08/13/20 16:56*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*08/10/20 17:00*	*08/13/20 16:56*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/10/20 17:00*	*08/13/20 16:56*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*	*08/10/20 17:00*	*08/13/20 16:56*	*1*

Client Sample ID: KLF 3-5
Date Collected: 08/10/20 13:04
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.3	0.26	ug/Kg		08/10/20 17:00	08/13/20 17:23	1
Toluene	ND		6.5	0.85	ug/Kg		08/10/20 17:00	08/13/20 17:23	1
Ethylbenzene	ND		1.3	0.27	ug/Kg		08/10/20 17:00	08/13/20 17:23	1
p/m-Xylene	ND		6.5	0.37	ug/Kg		08/10/20 17:00	08/13/20 17:23	1
o-Xylene	ND		3.3	0.60	ug/Kg		08/10/20 17:00	08/13/20 17:23	1
Xylenes, Total	ND		6.5	0.60	ug/Kg		08/10/20 17:00	08/13/20 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*80 - 121*	*08/10/20 17:00*	*08/13/20 17:23*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:23*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:23*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:23*	*1*

Client Sample ID: KLF 4-5
Date Collected: 08/10/20 11:34
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.33**	**J**	0.67	0.13	ug/Kg		08/10/20 17:00	08/13/20 17:50	1
Toluene	**0.57**	**J**	3.4	0.44	ug/Kg		08/10/20 17:00	08/13/20 17:50	1
Ethylbenzene	**0.20**	**J**	0.67	0.14	ug/Kg		08/10/20 17:00	08/13/20 17:50	1
p/m-Xylene	**0.62**	**J**	3.4	0.19	ug/Kg		08/10/20 17:00	08/13/20 17:50	1
o-Xylene	ND		1.7	0.31	ug/Kg		08/10/20 17:00	08/13/20 17:50	1
Xylenes, Total	**0.62**	**J**	3.4	0.31	ug/Kg		08/10/20 17:00	08/13/20 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*80 - 121*	*08/10/20 17:00*	*08/13/20 17:50*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:50*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:50*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*	*08/10/20 17:00*	*08/13/20 17:50*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

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

Client Sample ID: KLF 4-7
Date Collected: 08/10/20 11:48
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.63**	**J**	0.84	0.16	ug/Kg		08/10/20 17:00	08/13/20 18:16	1
Toluene	ND		4.2	0.55	ug/Kg		08/10/20 17:00	08/13/20 18:16	1
Ethylbenzene	**2.2**		0.84	0.17	ug/Kg		08/10/20 17:00	08/13/20 18:16	1
p/m-Xylene	**1.3**	**J**	4.2	0.24	ug/Kg		08/10/20 17:00	08/13/20 18:16	1
o-Xylene	ND		2.1	0.39	ug/Kg		08/10/20 17:00	08/13/20 18:16	1
Xylenes, Total	**1.3**	**J**	4.2	0.39	ug/Kg		08/10/20 17:00	08/13/20 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 121*	*08/10/20 17:00*	*08/13/20 18:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*08/10/20 17:00*	*08/13/20 18:16*	*1*
Toluene-d8 (Surr)	*136*	*X*	*80 - 120*	*08/10/20 17:00*	*08/13/20 18:16*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*	*08/10/20 17:00*	*08/13/20 18:16*	*1*

Client Sample ID: KLF 2-5
Date Collected: 08/10/20 14:04
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.79	0.15	ug/Kg		08/10/20 17:00	08/13/20 18:42	1
Toluene	ND		3.9	0.51	ug/Kg		08/10/20 17:00	08/13/20 18:42	1
Ethylbenzene	ND		0.79	0.16	ug/Kg		08/10/20 17:00	08/13/20 18:42	1
p/m-Xylene	ND		3.9	0.22	ug/Kg		08/10/20 17:00	08/13/20 18:42	1
o-Xylene	ND		2.0	0.36	ug/Kg		08/10/20 17:00	08/13/20 18:42	1
Xylenes, Total	ND		3.9	0.36	ug/Kg		08/10/20 17:00	08/13/20 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*80 - 121*	*08/10/20 17:00*	*08/13/20 18:42*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*08/10/20 17:00*	*08/13/20 18:42*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/10/20 17:00*	*08/13/20 18:42*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*08/10/20 17:00*	*08/13/20 18:42*	*1*

Client Sample ID: KLF 6
Date Collected: 08/10/20 10:48
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.6**		1.0	0.20	ug/Kg		08/10/20 17:00	08/14/20 12:05	1
Toluene	ND		5.2	0.68	ug/Kg		08/10/20 17:00	08/14/20 12:05	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		08/10/20 17:00	08/14/20 12:05	1
p/m-Xylene	**1.6**	**J**	5.2	0.29	ug/Kg		08/10/20 17:00	08/14/20 12:05	1
o-Xylene	ND		2.6	0.48	ug/Kg		08/10/20 17:00	08/14/20 12:05	1
Xylenes, Total	**1.6**	**J**	5.2	0.48	ug/Kg		08/10/20 17:00	08/14/20 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 121*	*08/10/20 17:00*	*08/14/20 12:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*	*08/10/20 17:00*	*08/14/20 12:05*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*08/10/20 17:00*	*08/14/20 12:05*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*	*08/10/20 17:00*	*08/14/20 12:05*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

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

Client Sample ID: KLF 5
Date Collected: 08/10/20 12:29
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.9**	**J**	14	1.8	ug/Kg		08/20/20 10:00	08/20/20 13:27	1
Toluene	**8.1**	**J**	70	6.3	ug/Kg		08/20/20 10:00	08/20/20 13:27	1
Ethylbenzene	**560**		19	4.3	ug/Kg		08/20/20 10:00	08/20/20 13:27	1
p/m-Xylene	**29**	**J**	93	7.0	ug/Kg		08/20/20 10:00	08/20/20 13:27	1
o-Xylene	ND		28	6.3	ug/Kg		08/20/20 10:00	08/20/20 13:27	1
Xylenes, Total	**29**	**J**	93	7.0	ug/Kg		08/20/20 10:00	08/20/20 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*	*08/20/20 10:00*	*08/20/20 13:27*	*1*
4-Bromofluorobenzene (Surr)	*111*		*80 - 120*	*08/20/20 10:00*	*08/20/20 13:27*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*	*08/20/20 10:00*	*08/20/20 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 121*	*08/20/20 10:00*	*08/20/20 13:27*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: KLF 3-6 — **Lab Sample ID: 570-35471-1**
Date Collected: 08/10/20 13:27 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		2.3	1.0	mg/Kg		08/19/20 11:09	08/20/20 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*50 - 150*	*08/19/20 11:09*	*08/20/20 06:17*	*1*

Client Sample ID: KLF 3-5 — **Lab Sample ID: 570-35471-2**
Date Collected: 08/10/20 13:04 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		3.0	1.4	mg/Kg		08/19/20 11:09	08/20/20 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*	*08/19/20 11:09*	*08/20/20 06:42*	*1*

Client Sample ID: KLF 4-5 — **Lab Sample ID: 570-35471-3**
Date Collected: 08/10/20 11:34 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**2.3**		1.6	0.73	mg/Kg		08/19/20 11:09	08/20/20 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*08/19/20 11:09*	*08/20/20 07:06*	*1*

Client Sample ID: KLF 4-7 — **Lab Sample ID: 570-35471-4**
Date Collected: 08/10/20 11:48 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**160**		10	4.6	mg/Kg		08/19/20 11:09	08/20/20 08:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*08/19/20 11:09*	*08/20/20 08:42*	*1*

Client Sample ID: KLF 2-5 — **Lab Sample ID: 570-35471-5**
Date Collected: 08/10/20 14:04 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		2.1	0.99	mg/Kg		08/19/20 11:09	08/20/20 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*08/19/20 11:09*	*08/20/20 07:30*	*1*

Client Sample ID: KLF 6 — **Lab Sample ID: 570-35471-6**
Date Collected: 08/10/20 10:48 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**3.5**	**J**	4.6	2.1	mg/Kg		08/19/20 11:09	08/20/20 08:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*	*08/19/20 11:09*	*08/20/20 08:18*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: KLF 5
Date Collected: 08/10/20 12:29
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	**120**		13	5.8	mg/Kg		08/19/20 11:09	08/20/20 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*	*08/19/20 11:09*	*08/20/20 09:07*	*1*

General Chemistry

Client Sample ID: KLF 3-6 — **Lab Sample ID: 570-35471-1**
Date Collected: 08/10/20 13:27 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	15.5		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 3-5 — **Lab Sample ID: 570-35471-2**
Date Collected: 08/10/20 13:04 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.3		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	7.7		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 4-5 — **Lab Sample ID: 570-35471-3**
Date Collected: 08/10/20 11:34 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.9		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	9.1		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 4-7 — **Lab Sample ID: 570-35471-4**
Date Collected: 08/10/20 11:48 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.3		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	10.7		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 2-5 — **Lab Sample ID: 570-35471-5**
Date Collected: 08/10/20 14:04 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.7		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	15.3		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 6 — **Lab Sample ID: 570-35471-6**
Date Collected: 08/10/20 10:48 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	66.6		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	33.4		0.1	0.1	%			08/11/20 20:12	1

Client Sample ID: KLF 5 — **Lab Sample ID: 570-35471-7**
Date Collected: 08/10/20 12:29 — **Matrix: Solid**
Date Received: 08/10/20 17:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73.6		0.1	0.1	%			08/11/20 20:12	1
Percent Moisture	26.4		0.1	0.1	%			08/11/20 20:12	1

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(80-120)	(80-120)	(80-120)
570-35471-1	KLF 3-6	121	103	93	111
570-35471-2	KLF 3-5	121	105	93	108
570-35471-3	KLF 4-5	118	106	101	106
570-35471-4	KLF 4-7	104	102	136 X	95
570-35471-5	KLF 2-5	118	103	93	105
570-35471-6	KLF 6	113	106	102	103
570-35471-7	KLF 5	101	111	98	97
LCS 580-335585/2-A	Lab Control Sample	102	104	95	104
LCS 580-335585/2-A	Lab Control Sample	103	106	95	103
LCS 580-336195/2-A	Lab Control Sample	102	102	99	100
LCSD 580-335585/3-A	Lab Control Sample Dup	103	105	96	103
LCSD 580-335585/3-A	Lab Control Sample Dup	104	105	97	104
LCSD 580-336195/3-A	Lab Control Sample Dup	101	99	100	101
MB 580-335585/1-A	Method Blank	104	101	95	104
MB 580-335585/1-A	Method Blank	106	102	92	105
MB 580-336195/1-A	Method Blank	102	99	101	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
570-35471-1	KLF 3-6	90
570-35471-2	KLF 3-5	93
570-35471-3	KLF 4-5	94
570-35471-4	KLF 4-7	94
570-35471-5	KLF 2-5	94
570-35471-6	KLF 6	99
570-35471-7	KLF 5	104
LCS 580-336032/2-A	Lab Control Sample	95
LCSD 580-336032/3-A	Lab Control Sample Dup	99
MB 580-336032/1-A	Method Blank	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 580-335585/1-A
Matrix: Solid
Analysis Batch: 335573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/13/20 13:30	08/13/20 15:02	1
Toluene	ND		10	1.3	ug/Kg		08/13/20 13:30	08/13/20 15:02	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/13/20 13:30	08/13/20 15:02	1
p/m-Xylene	ND		10	0.56	ug/Kg		08/13/20 13:30	08/13/20 15:02	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/13/20 13:30	08/13/20 15:02	1
Xylenes, Total	ND		10	0.92	ug/Kg		08/13/20 13:30	08/13/20 15:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*08/13/20 13:30*	*08/13/20 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 121*	*08/13/20 13:30*	*08/13/20 15:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*08/13/20 13:30*	*08/13/20 15:02*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*08/13/20 13:30*	*08/13/20 15:02*	*1*

Lab Sample ID: MB 580-335585/1-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Toluene	ND		10	1.3	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
p/m-Xylene	ND		10	0.56	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Xylenes, Total	ND		10	0.92	ug/Kg		08/13/20 13:30	08/14/20 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*

Lab Sample ID: LCS 580-335585/2-A
Matrix: Solid
Analysis Batch: 335573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	25.34		ug/Kg		127	79 - 135
Toluene	20.0	23.12		ug/Kg		116	75 - 137
Ethylbenzene	20.0	24.66		ug/Kg		123	80 - 135
p/m-Xylene	20.0	25.35		ug/Kg		127	80 - 132
o-Xylene	20.0	26.48		ug/Kg		132	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*

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

Lab Sample ID: LCS 580-335585/2-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335585

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	23.89		ug/Kg		119	79 - 135
Toluene	20.0	22.47		ug/Kg		112	75 - 137
Ethylbenzene	20.0	22.87		ug/Kg		114	80 - 135
p/m-Xylene	20.0	23.59		ug/Kg		118	80 - 132
o-Xylene	20.0	23.84		ug/Kg		119	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*
Toluene-d8 (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-335585/3-A
Matrix: Solid
Analysis Batch: 335573

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335585

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.84		ug/Kg		104	79 - 135	20	31
Toluene	20.0	19.20		ug/Kg		96	75 - 137	19	34
Ethylbenzene	20.0	20.40		ug/Kg		102	80 - 135	19	37
p/m-Xylene	20.0	21.52		ug/Kg		108	80 - 132	16	38
o-Xylene	20.0	22.01		ug/Kg		110	80 - 132	18	39

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-335585/3-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335585

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	21.95		ug/Kg		110	79 - 135	8	31
Toluene	20.0	21.92		ug/Kg		110	75 - 137	2	34
Ethylbenzene	20.0	23.23		ug/Kg		116	80 - 135	2	37
p/m-Xylene	20.0	23.62		ug/Kg		118	80 - 132	0	38
o-Xylene	20.0	24.36		ug/Kg		122	80 - 132	2	39

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*

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

Lab Sample ID: MB 580-336195/1-A
Matrix: Solid
Analysis Batch: 336201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		30	3.8	ug/Kg		08/20/20 10:00	08/20/20 12:03	1
Toluene	ND		150	14	ug/Kg		08/20/20 10:00	08/20/20 12:03	1
Ethylbenzene	ND		40	9.1	ug/Kg		08/20/20 10:00	08/20/20 12:03	1
p/m-Xylene	ND		200	15	ug/Kg		08/20/20 10:00	08/20/20 12:03	1
o-Xylene	ND		60	13	ug/Kg		08/20/20 10:00	08/20/20 12:03	1
Xylenes, Total	ND		200	15	ug/Kg		08/20/20 10:00	08/20/20 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*	*08/20/20 10:00*	*08/20/20 12:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*	*08/20/20 10:00*	*08/20/20 12:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*08/20/20 10:00*	*08/20/20 12:03*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*08/20/20 10:00*	*08/20/20 12:03*	*1*

Lab Sample ID: LCS 580-336195/2-A
Matrix: Solid
Analysis Batch: 336201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			800	879.6		ug/Kg		110	79 - 135		
Toluene			800	855.2		ug/Kg		107	75 - 137		
Ethylbenzene			800	871.2		ug/Kg		109	80 - 135		
p/m-Xylene			800	871.4		ug/Kg		109	80 - 132		
o-Xylene			800	862.5		ug/Kg		108	80 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 580-336195/3-A
Matrix: Solid
Analysis Batch: 336201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 336195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			800	882.3		ug/Kg		110	79 - 135	0	31
Toluene			800	853.6		ug/Kg		107	75 - 137	0	34
Ethylbenzene			800	876.4		ug/Kg		110	80 - 135	1	37
p/m-Xylene			800	876.0		ug/Kg		110	80 - 132	1	38
o-Xylene			800	867.6		ug/Kg		108	80 - 132	1	39

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 121*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-336032/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336075 — **Prep Batch: 336032**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		5.0	2.3	mg/Kg		08/19/20 10:51	08/20/20 03:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*08/19/20 10:51*	*08/20/20 03:52*	*1*

Lab Sample ID: LCS 580-336032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336075 — **Prep Batch: 336032**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline			40.0	35.44		mg/Kg		89	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*

Lab Sample ID: LCSD 580-336032/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336075 — **Prep Batch: 336032**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline			40.0	38.55		mg/Kg		96	80 - 120	8	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*

Method: 2540G - SM 2540G

Lab Sample ID: 580-96578-A-11 DU — **Client Sample ID: Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 335367

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	94.2			94.5		%				0.3	20
Percent Moisture	5.8			5.5		%				5	20

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

GC/MS VOA

Analysis Batch: 335573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-1	KLF 3-6	Total/NA	Solid	8260D	335585
570-35471-2	KLF 3-5	Total/NA	Solid	8260D	335585
570-35471-3	KLF 4-5	Total/NA	Solid	8260D	335585
570-35471-4	KLF 4-7	Total/NA	Solid	8260D	335585
570-35471-5	KLF 2-5	Total/NA	Solid	8260D	335585
MB 580-335585/1-A	Method Blank	Total/NA	Solid	8260D	335585
LCS 580-335585/2-A	Lab Control Sample	Total/NA	Solid	8260D	335585
LCSD 580-335585/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	335585

Prep Batch: 335585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-1	KLF 3-6	Total/NA	Solid	5035	
570-35471-2	KLF 3-5	Total/NA	Solid	5035	
570-35471-3	KLF 4-5	Total/NA	Solid	5035	
570-35471-4	KLF 4-7	Total/NA	Solid	5035	
570-35471-5	KLF 2-5	Total/NA	Solid	5035	
570-35471-6	KLF 6	Total/NA	Solid	5035	
MB 580-335585/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-335585/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-335585/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 335626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-6	KLF 6	Total/NA	Solid	8260D	335585
MB 580-335585/1-A	Method Blank	Total/NA	Solid	8260D	335585
LCS 580-335585/2-A	Lab Control Sample	Total/NA	Solid	8260D	335585
LCSD 580-335585/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	335585

Prep Batch: 336195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-7	KLF 5	Total/NA	Solid	5035	
MB 580-336195/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-336195/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-336195/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 336201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-7	KLF 5	Total/NA	Solid	8260D	336195
MB 580-336195/1-A	Method Blank	Total/NA	Solid	8260D	336195
LCS 580-336195/2-A	Lab Control Sample	Total/NA	Solid	8260D	336195
LCSD 580-336195/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	336195

GC VOA

Prep Batch: 336032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-1	KLF 3-6	Total/NA	Solid	5035	
570-35471-2	KLF 3-5	Total/NA	Solid	5035	
570-35471-3	KLF 4-5	Total/NA	Solid	5035	
570-35471-4	KLF 4-7	Total/NA	Solid	5035	
570-35471-5	KLF 2-5	Total/NA	Solid	5035	

GC VOA (Continued)

Prep Batch: 336032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-6	KLF 6	Total/NA	Solid	5035	
570-35471-7	KLF 5	Total/NA	Solid	5035	
MB 580-336032/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-336032/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-336032/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 336075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-1	KLF 3-6	Total/NA	Solid	NWTPH-Gx	336032
570-35471-2	KLF 3-5	Total/NA	Solid	NWTPH-Gx	336032
570-35471-3	KLF 4-5	Total/NA	Solid	NWTPH-Gx	336032
570-35471-4	KLF 4-7	Total/NA	Solid	NWTPH-Gx	336032
570-35471-5	KLF 2-5	Total/NA	Solid	NWTPH-Gx	336032
570-35471-6	KLF 6	Total/NA	Solid	NWTPH-Gx	336032
570-35471-7	KLF 5	Total/NA	Solid	NWTPH-Gx	336032
MB 580-336032/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	336032
LCS 580-336032/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	336032
LCSD 580-336032/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	336032

General Chemistry

Analysis Batch: 335367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35471-1	KLF 3-6	Total/NA	Solid	2540G	
570-35471-2	KLF 3-5	Total/NA	Solid	2540G	
570-35471-3	KLF 4-5	Total/NA	Solid	2540G	
570-35471-4	KLF 4-7	Total/NA	Solid	2540G	
570-35471-5	KLF 2-5	Total/NA	Solid	2540G	
570-35471-6	KLF 6	Total/NA	Solid	2540G	
570-35471-7	KLF 5	Total/NA	Solid	2540G	
580-96578-A-11 DU	Duplicate	Total/NA	Solid	2540G	

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Client Sample ID: KLF 3-6
Date Collected: 08/10/20 13:27
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.168 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335573	08/13/20 16:56	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			11.038 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336075	08/20/20 06:17	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 3-5
Date Collected: 08/10/20 13:04
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.636 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335573	08/13/20 17:23	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			8.203 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336075	08/20/20 06:42	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 4-5
Date Collected: 08/10/20 11:34
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.837 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335573	08/13/20 17:50	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			15.862 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336075	08/20/20 07:06	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 4-7
Date Collected: 08/10/20 11:48
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.857 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335573	08/13/20 18:16	CJ	TAL SEA
	Instrument ID:	TAC119								

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Client Sample ID: KLF 4-7
Date Collected: 08/10/20 11:48
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.357 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	0.2 mL	43 mL	336075	08/20/20 08:42	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 2-5
Date Collected: 08/10/20 14:04
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.717 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335573	08/13/20 18:42	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			11.652 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336075	08/20/20 07:30	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 6
Date Collected: 08/10/20 10:48
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.54 g	5 mL	335585	08/10/20 17:00	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335626	08/14/20 12:05	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			10.839 g	10 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336075	08/20/20 08:18	JSM	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF 5
Date Collected: 08/10/20 12:29
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.702 g	5 mL	336195	08/20/20 10:00	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	336201	08/20/20 13:27	TL1	TAL SEA
	Instrument ID:	SEA046								
Total/NA	Prep	5035			10.702 g	5 mL	336032	08/19/20 11:09	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	0.2 mL	43 mL	336075	08/20/20 09:07	JSM	TAL SEA
	Instrument ID:	SEA006								

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Client Sample ID: KLF 5

Date Collected: 08/10/20 12:29
Date Received: 08/10/20 17:00

Lab Sample ID: 570-35471-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			335367	08/11/20 20:12	HBP	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-14-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21

Method Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL SEA
2540G	SM 2540G	SM22	TAL SEA
5035	Closed System Purge and Trap	SW846	TAL SEA

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35471-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-35471-1	KLF 3-6	Solid	08/10/20 13:27	08/10/20 17:00	
570-35471-2	KLF 3-5	Solid	08/10/20 13:04	08/10/20 17:00	
570-35471-3	KLF 4-5	Solid	08/10/20 11:34	08/10/20 17:00	
570-35471-4	KLF 4-7	Solid	08/10/20 11:48	08/10/20 17:00	
570-35471-5	KLF 2-5	Solid	08/10/20 14:04	08/10/20 17:00	
570-35471-6	KLF 6	Solid	08/10/20 10:48	08/10/20 17:00	
570-35471-7	KLF 5	Solid	08/10/20 12:29	08/10/20 17:00	

de Guia, Cecile

From: Wesley Willow <WWillow@kleinfelder.com>
Sent: Wednesday, August 12, 2020 3:28 PM
To: de Guia, Cecile
Subject: RE: XOM 72864 CoC

EXTERNAL EMAIL*

Yes BTEX only,
Thank you,

From: de Guia, Cecile <Cecile.deGuia@eurofinset.com>
Sent: Wednesday, August 12, 2020 3:21 PM
To: Wesley Willow <WWillow@kleinfelder.com>
Subject: RE: XOM 72864 CoC

External Email.

Ok. Thank you.
Are all samples for 8260D reported for BTEX only?
Please confirm. Thank you.

Cecile

From: Wesley Willow [mailto:WWillow@kleinfelder.com]
Sent: Wednesday, August 12, 2020 3:18 PM
To: de Guia, Cecile
Subject: RE: XOM 72864 CoC

EXTERNAL EMAIL*

Hi Cecile,
We will not need the Trip Blanks analyzed.
Thank you,

From: de Guia, Cecile <Cecile.deGuia@eurofinset.com>
Sent: Wednesday, August 12, 2020 2:46 PM
To: Wesley Willow <WWillow@kleinfelder.com>
Subject: FW: XOM 72864 CoC
Importance: High

External Email.

Hi Wesley,
Trip Blanks were submitted but was not listed on the COC for analysis. Please update and send ASAP.
Thank you.

Cecile de Guia
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
Garden Grove, CA 92841
USA
Phone: +1 714 895 5494

From: Wesley Willow [mailto:WWillow@kleinfelder.com]
Sent: Wednesday, August 12, 2020 12:31 PM
To: de Guia, Cecile
Subject: RE: XOM 72864 CoC

EXTERNAL EMAIL*

Hi Cecile,
Updated CoC attached. MS/MSD goes with KLF1-3.
Thx,

From: de Guia, Cecile <Cecile.deGuia@eurofinset.com>
Sent: Wednesday, August 12, 2020 12:22 PM
To: Wesley Willow <WWillow@kleinfelder.com>; Will Rosso <WRosso@kleinfelder.com>
Subject: FW: XOM 72864 CoC
Importance: High

External Email.

Good afternoon Wesley,

Please review the attached COC and advise on which sample MS/MSD should be performed? The MS/MSD row didn't have time to help us identify the parent sample.
Let us know ASAP.
Thank you.

Cecile de Guia
Project Manager

Eurofins Calscience, LLC
7440 Lincoln Way
Garden Grove, CA 92841
USA

35471

eurofins | Calscience

570-35471 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 8-10-20

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us25_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Accounts Payable Eurofins Calscience LLC

ADDRESS: 7440 Lincoln Way

CITY: Garden Grove STATE: ZIP:

TEL: 714-895-5494 E-MAIL: US26-AP@Eurofinsus.com

CLIENT PROJECT NAME / NUMBER: XOM 72864

PROJECT CONTACT: Wesley Willow 724-612-0007

P.O. NO.:

SAMPLER(S): (PRINT) William Rosso

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☑ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	8260C Benzene
1	KLF 3-6	8-10	1327	S	6	1	5		X
2	KLF 3-5		1304	S	6	1	5		X
3	KLF 4-5		1134	S	6	1	5		X
4	KLF 4-7		1148	S	6	1	5		X
5	KLF 2-5		1404	S	6	1	5		X
6	KLF 6		1048	S	6	1	5		X
7	KLF 5		1229	S	6	1	5		X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	8-10-20	1700
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

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570-35471 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 8-10-20

PAGE: 1 OF 1

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

LABORATORY CLIENT: Accounts Payable Eurofins Calscience LLC

ADDRESS: 7440 Lincoln way

CITY: Garden Grove STATE: ZIP:

TEL: 714-895-5494 E-MAIL: us26_AR@Eurofinsus.com

CLIENT PROJECT NAME / NUMBER: XOM 72864

P.O. NO.:

PROJECT CONTACT: Wesley Willow 724-612-0003

SAMPLER(S): (PRINT) William Rosso

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	8260D (Benzene)
	KLF 3-6	8-10	1327	S	6	1	5		X
	KLF 3-5		1304	S	6	1	5		X
	KLF 4-5		1134	S	6	1	5		X
	KLF 4-7		1148	S	6	1	5		X
	KLF 2-5		1404	S	6	1	5		X
	KLF 6		1048	S	6	1	5		X
	KLF 5		1229	S	6	1	5		X

Therm. ID: IR Cor: 3.0 Unc: 3.0
Cooler Dsc: GB
Packing: Bags
Cust. Seal: Yes ___ No X
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Courr: ___
Other: Drop

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date	Time
[signature]	[signature] ETA SEA	8-10-20	1655
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

9/15/2020

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: de Guia, Cecile	Carrier Tracking No(s):	COC No: 570-44863.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Cecile.deGuia@eurofinset.com	State of Origin: Washington	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 570-35471-1
Address: 5755 8th Street East,	Due Date Requested: 8/13/2020			
City: Tacoma	TAT Requested (days):			
State, Zip: WA, 98424				
Phone: 253-922-2310(Tel) 253-922-5047(Fax)	PO #:			
Email:	WO #:			
Project Name: Former ExxonMobil 72864	Project #: 57001933			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO2, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture	8260D/5035A_FW Benzene Only	Total Number of Containers	Special Instructions/Note:
			Preservation Code		X	X			X	
KLF 3-6 (570-35471-1)	8/10/20	13:27 Pacific		Solid			X	X	6	
KLF 3-5 (570-35471-2)	8/10/20	13:04 Pacific		Solid			X	X	6	
KLF 4-5 (570-35471-3)	8/10/20	11:34 Pacific		Solid			X	X	6	
KLF 4-7 (570-35471-4)	8/10/20	11:48 Pacific		Solid			X	X	6	
KLF 2-5 (570-35471-5)	8/10/20	14:04 Pacific		Solid			X	X	6	
KLF 6 (570-35471-6)	8/10/20	10:48 Pacific		Solid			X	X	6	
KLF 5 (570-35471-7)	8/10/20	12:29 Pacific		Solid			X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
[signature]	08/10/2020	ECI	[signature]	8/10/2020 1655	Eurofins *

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

* Received Direct from Client

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35471-1

Login Number: 35471
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

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

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35471-1

Login Number: 35471
List Number: 2
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 08/11/20 03:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR6= 3.0c/3.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35471-1

Login Number: 35471
List Number: 3
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 08/11/20 03:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	IR6=3.0c/3.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-35629-1
Client Project/Site: Former ExxonMobil 72864

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
8/26/2020 11:51:26 PM

Cecile de Guia, Project Manager I
(714)895-5494
Cecile.deGuia@eurofinset.com

LINKS

Review your project results through TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 570-35629-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-35629-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method 8260D: Surrogate recovery for the following sample was outside control limits: KLF - 9 (570-35629-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following samples were analyzed outside of analytical holding time : KLF - 9 (570-35629-1) and KLF - 8 (570-35629-2).

Method 8260D: For batch 580-336581, the flag for CCVIS %D out of criteria was removed by the analyst for the compound Benzene. The value 20.3 %D (Lmt20) meets the +/- 20% criteria.

KLF - 9 (570-35629-1), KLF - 8 (570-35629-2) and (CCVIS 580-336581/3)

Method 8260D: The J-flagged recoveries for Ethylbenzene and p/m-Xylene in this sample may be carried over from the high hits for these analytes in the previous sample, causing a possible high bias. There is no volume remaining to reanalyze.

KLF - 1 - 3 (570-35629-4)

Method 8260D: The laboratory control sample duplicate (LCSD) for preparation batch 580-336155 and 580-336155 and analytical batch 580-336146 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCSD and may indicate a high bias for any sample hits. There is no volume remaining for reanalysis; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) for preparation batch 580-336155 and analytical batch 580-336146 recovered outside control limits for the following analytes: Ethylbenzene (29.8%D), p/m-Xylene (34.4%D), o-Xylene (38.3%D) and Toluene (20.5%D). These analytes were biased high in the CCV and may indicate a high bias for any sample hits. There is no volume remaining for reanalysis; therefore, the data have been reported.

KLF - 1 - 3 (570-35629-4), KLF - 1 - 6 (570-35629-5) and (CCVIS 580-336146/3)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 580-336155 and analytical batch 580-336146 recovered outside control limits.

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

GC/MS Semi VOA
Methods 8270D, 8270E: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 3,3'-dichlorobenzidine and 2,4-Dinitrophenol. These analytes may have a %D <60%.

Methods 8270D, 8270E: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-335747 was outside criteria for the following analyte(s): N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Methods 8270D, 8270E: The continuing calibration verification (CCV) associated with batch 580-335747 recovered above the upper control limit for surrogate, 2,4,6-Tribromophenol. The samples associated with this CCV recovered within control limits for this surrogate; therefore, the data have been reported. The associated sample is impacted: (CCVIS 580-335747/3).

Job ID: 570-35629-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

Method 8270D: The following analytes have been identified, in the reference method and/or via historical data, to be poor and/or erratic performers: 3,3'-dichlorobenzidine, Carbazole and Benzyl alcohol. These analytes may have a %D >60%.

Methods 8270D, 8270E: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-335878 was outside criteria for the following analyte(s): N-Nitrosodi-n-propylamine, Benzo[g,h,i]perylene, Pentachlorophenol, 2,4-Dinitrotoluene, 2,4,5-trichlorophenol and 2,4,6-Trichlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Methods 8270D, 8270E: The continuing calibration verification (CCV) associated with batch 580-335878 recovered outside acceptance criteria, low biased, for Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 580-335878 recovered above the upper control limit for 2-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 580-335878/3).

Methods 8270D, 8270E: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 580-335619 and analytical batch 580-335747 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

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

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

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

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

VOA Prep
Method 5035: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: KLF - 9 (570-35629-1), KLF - 8 (570-35629-2), KLF - 7 (570-35629-3), KLF - 1 - 3 (570-35629-4), KLF - 1 - 3 (570-35629-4[MS]), KLF - 1 - 3 (570-35629-4[MSD]) and KLF - 1 - 6 (570-35629-5). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 5g. The amount provided was above this range.

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

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

Detection Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Client Sample ID: KLF - 9 — Lab Sample ID: 570-35629-1

Sample Analysis Not Complete.

Client Sample ID: KLF - 8 — Lab Sample ID: 570-35629-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.5	J H	32	4.0	ug/Kg	1		8260D	Total/NA
Toluene	160	H	160	14	ug/Kg	1		8260D	Total/NA
Ethylbenzene	65	H	42	9.7	ug/Kg	1		8260D	Total/NA
m-Xylene & p-Xylene	290	H	210	16	ug/Kg	1		8260D	Total/NA
o-Xylene	120	H	64	14	ug/Kg	1		8260D	Total/NA
Xylenes, Total	410	H	210	16	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	18		5.3	2.4	mg/Kg	1		NWTPH-Gx	Total/NA

Client Sample ID: KLF - 7 — Lab Sample ID: 570-35629-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.80	J	1.1	0.21	ug/Kg	1		8260D	Total/NA
Ethylbenzene	0.30	J	1.1	0.22	ug/Kg	1		8260D	Total/NA
p/m-Xylene	0.89	J	5.4	0.30	ug/Kg	1		8260D	Total/NA
Xylenes, Total	0.89	J	5.4	0.50	ug/Kg	1		8260D	Total/NA
TPH as Gasoline	5.6		4.8	2.2	mg/Kg	1		NWTPH-Gx	Total/NA

Client Sample ID: KLF - 1 - 3 — Lab Sample ID: 570-35629-4

Sample Analysis Not Complete.

Client Sample ID: KLF - 1 - 6 — Lab Sample ID: 570-35629-5

Sample Analysis Not Complete.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

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

Client Sample ID: KLF - 9
Date Collected: 08/11/20 07:32
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	33	H	25	3.2	ug/Kg		08/24/20 17:50	08/25/20 02:58	1
Toluene	ND	H	130	11	ug/Kg		08/24/20 17:50	08/25/20 02:58	1
Ethylbenzene	300	H	34	7.6	ug/Kg		08/24/20 17:50	08/25/20 02:58	1
m-Xylene & p-Xylene	1100	H	170	12	ug/Kg		08/24/20 17:50	08/25/20 02:58	1
o-Xylene	140	H	50	11	ug/Kg		08/24/20 17:50	08/25/20 02:58	1
Xylenes, Total	1200	H	170	12	ug/Kg		08/24/20 17:50	08/25/20 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*	*08/24/20 17:50*	*08/25/20 02:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*08/24/20 17:50*	*08/25/20 02:58*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*08/24/20 17:50*	*08/25/20 02:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 121*	*08/24/20 17:50*	*08/25/20 02:58*	*1*

Client Sample ID: KLF - 8
Date Collected: 08/11/20 08:24
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.5	J H	32	4.0	ug/Kg		08/24/20 17:50	08/25/20 03:25	1
Toluene	160	H	160	14	ug/Kg		08/24/20 17:50	08/25/20 03:25	1
Ethylbenzene	65	H	42	9.7	ug/Kg		08/24/20 17:50	08/25/20 03:25	1
m-Xylene & p-Xylene	290	H	210	16	ug/Kg		08/24/20 17:50	08/25/20 03:25	1
o-Xylene	120	H	64	14	ug/Kg		08/24/20 17:50	08/25/20 03:25	1
Xylenes, Total	410	H	210	16	ug/Kg		08/24/20 17:50	08/25/20 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/24/20 17:50*	*08/25/20 03:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*08/24/20 17:50*	*08/25/20 03:25*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*08/24/20 17:50*	*08/25/20 03:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 121*	*08/24/20 17:50*	*08/25/20 03:25*	*1*

Client Sample ID: KLF - 7
Date Collected: 08/11/20 09:17
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.80	J	1.1	0.21	ug/Kg		08/12/20 13:30	08/14/20 14:34	1
Toluene	ND		5.4	0.70	ug/Kg		08/12/20 13:30	08/14/20 14:34	1
Ethylbenzene	0.30	J	1.1	0.22	ug/Kg		08/12/20 13:30	08/14/20 14:34	1
p/m-Xylene	0.89	J	5.4	0.30	ug/Kg		08/12/20 13:30	08/14/20 14:34	1
o-Xylene	ND		2.7	0.50	ug/Kg		08/12/20 13:30	08/14/20 14:34	1
Xylenes, Total	0.89	J	5.4	0.50	ug/Kg		08/12/20 13:30	08/14/20 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/12/20 13:30*	*08/14/20 14:34*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*	*08/12/20 13:30*	*08/14/20 14:34*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*	*08/12/20 13:30*	*08/14/20 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*80 - 121*	*08/12/20 13:30*	*08/14/20 14:34*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

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

Client Sample ID: KLF - 1 - 3
Date Collected: 08/11/20 09:31
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.2	0.23	ug/Kg		08/12/20 09:40	08/20/20 17:31	1
Toluene	ND		5.9	0.77	ug/Kg		08/12/20 09:40	08/20/20 17:31	1
Ethylbenzene	**0.36**	**J**	1.2	0.24	ug/Kg		08/12/20 09:40	08/20/20 17:31	1
p/m-Xylene	**1.3**	**J**	5.9	0.33	ug/Kg		08/12/20 09:40	08/20/20 17:31	1
o-Xylene	ND	*	3.0	0.54	ug/Kg		08/12/20 09:40	08/20/20 17:31	1
Xylenes, Total	**1.3**	**J *1**	5.9	0.54	ug/Kg		08/12/20 09:40	08/20/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:31*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*80 - 121*	*08/12/20 09:40*	*08/20/20 17:31*	*1*

Client Sample ID: KLF - 1 - 6
Date Collected: 08/11/20 09:42
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.94	0.18	ug/Kg		08/12/20 09:40	08/20/20 17:57	1
Toluene	ND		4.7	0.61	ug/Kg		08/12/20 09:40	08/20/20 17:57	1
Ethylbenzene	**3.3**		0.94	0.19	ug/Kg		08/12/20 09:40	08/20/20 17:57	1
p/m-Xylene	**11**		4.7	0.26	ug/Kg		08/12/20 09:40	08/20/20 17:57	1
o-Xylene	**2.1**	**J ***	2.4	0.43	ug/Kg		08/12/20 09:40	08/20/20 17:57	1
Xylenes, Total	**13**	***1**	4.7	0.43	ug/Kg		08/12/20 09:40	08/20/20 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:57*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*	*08/12/20 09:40*	*08/20/20 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*80 - 121*	*08/12/20 09:40*	*08/20/20 17:57*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

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

Client Sample ID: KLF - 9
Date Collected: 08/11/20 07:32
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		38	4.4	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Acenaphthylene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Anthracene	ND		57	15	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzo[a]anthracene	ND		38	10	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzo[a]pyrene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzo[b]fluoranthene	ND		38	9.5	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzo[g,h,i]perylene	ND		57	17	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzoic acid	ND		3800	1200	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzo[k]fluoranthene	ND		57	13	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Benzyl alcohol	ND		950	48	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Bis(2-chloroethoxy)methane	ND		190	17	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Bis(2-chloroethyl)ether	ND		95	7.3	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
bis(chloroisopropyl) ether	ND		190	5.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Bis(2-ethylhexyl) phthalate	ND		570	68	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Bromophenyl phenyl ether	ND		190	8.7	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Butyl benzyl phthalate	ND		190	49	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Carbazole	ND		140	7.0	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Chloroaniline	ND		1400	130	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Chloro-3-methylphenol	ND		140	31	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2-Chloronaphthalene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2-Chlorophenol	ND		190	3.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Chlorophenyl phenyl ether	ND		190	6.0	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Chrysene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Dibenz(a,h)anthracene	ND		48	11	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Dibenzofuran	ND		140	5.6	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
1,2-Dichlorobenzene	ND		48	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
1,3-Dichlorobenzene	ND		48	4.6	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
1,4-Dichlorobenzene	ND		48	7.9	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
3,3'-Dichlorobenzidine	ND		380	80	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4-Dichlorophenol	ND		190	57	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Diethyl phthalate	ND		380	21	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4-Dimethylphenol	ND		190	57	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Dimethyl phthalate	ND		140	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Di-n-butyl phthalate	ND		480	26	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4,6-Dinitro-2-methylphenol	ND		950	95	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4-Dinitrophenol	ND		1900	560	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4-Dinitrotoluene	ND		190	41	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,6-Dinitrotoluene	ND		140	14	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Di-n-octyl phthalate	ND		140	11	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Fluoranthene	ND		38	11	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Fluorene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Hexachlorobenzene	ND		48	14	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Hexachlorobutadiene	ND		48	14	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Hexachlorocyclopentadiene	ND		95	7.3	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Hexachloroethane	ND		140	4.1	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Indeno[1,2,3-cd]pyrene	ND		38	11	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Isophorone	ND		140	8.0	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
1-Methylnaphthalene	**160**		29	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2-Methylnaphthalene	**300**		48	8.4	ug/Kg		08/14/20 09:21	08/15/20 20:45	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: KLF - 9
Date Collected: 08/11/20 07:32
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		140	9.3	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
3 & 4 Methylphenol	ND		190	14	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Naphthalene	**280**		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2-Nitroaniline	ND		95	14	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
3-Nitroaniline	ND		290	95	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Nitroaniline	ND		140	48	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Nitrobenzene	ND		190	19	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2-Nitrophenol	ND		190	5.9	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
4-Nitrophenol	ND		1900	160	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
N-Nitrosodi-n-propylamine	ND		190	21	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
N-Nitrosodiphenylamine	ND		57	7.6	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Pentachlorophenol	ND		380	60	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Phenanthrene	**8.7**	**J**	57	5.5	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Phenol	ND		140	22	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
Pyrene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
1,2,4-Trichlorobenzene	ND		48	5.7	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4,5-Trichlorophenol	ND		190	7.7	ug/Kg		08/14/20 09:21	08/15/20 20:45	1
2,4,6-Trichlorophenol	ND		140	12	ug/Kg		08/14/20 09:21	08/15/20 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*57 - 120*	*08/14/20 09:21*	*08/15/20 20:45*	*1*
2-Fluorophenol (Surr)	*71*		*47 - 119*	*08/14/20 09:21*	*08/15/20 20:45*	*1*
Nitrobenzene-d5 (Surr)	*70*		*54 - 120*	*08/14/20 09:21*	*08/15/20 20:45*	*1*
Phenol-d5 (Surr)	*72*		*59 - 120*	*08/14/20 09:21*	*08/15/20 20:45*	*1*
Terphenyl-d14 (Surr)	*91*		*73 - 125*	*08/14/20 09:21*	*08/15/20 20:45*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*52 - 115*	*08/14/20 09:21*	*08/15/20 20:45*	*1*

Client Sample ID: KLF - 1 - 3
Date Collected: 08/11/20 09:31
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		37	4.2	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Acenaphthylene	ND		23	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Anthracene	ND		55	15	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzo[a]anthracene	ND		37	10	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzo[a]pyrene	ND		55	12	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzo[b]fluoranthene	ND		37	9.2	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzo[g,h,i]perylene	ND		55	17	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzoic acid	ND		3700	1100	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzo[k]fluoranthene	ND	F2	55	13	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Benzyl alcohol	ND		920	46	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Bis(2-chloroethoxy)methane	ND		180	17	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Bis(2-chloroethyl)ether	ND		92	7.1	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
bis(chloroisopropyl) ether	ND		180	5.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Bis(2-ethylhexyl) phthalate	ND		550	65	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Bromophenyl phenyl ether	ND		180	8.4	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Butyl benzyl phthalate	ND		180	47	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Carbazole	ND		140	6.7	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Chloroaniline	ND		1400	120	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Chloro-3-methylphenol	ND		140	30	ug/Kg		08/14/20 09:21	08/15/20 21:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: KLF - 1 - 3
Date Collected: 08/11/20 09:31
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		23	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2-Chlorophenol	ND		180	3.7	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Chlorophenyl phenyl ether	ND		180	5.8	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Chrysene	ND		55	12	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Dibenz(a,h)anthracene	ND		46	11	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Dibenzofuran	ND		140	5.4	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
1,2-Dichlorobenzene	ND		46	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
1,3-Dichlorobenzene	ND		46	4.4	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
1,4-Dichlorobenzene	ND		46	7.7	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
3,3'-Dichlorobenzidine	ND		370	77	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4-Dichlorophenol	ND		180	55	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Diethyl phthalate	ND		370	20	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4-Dimethylphenol	ND		180	55	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Dimethyl phthalate	ND		140	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Di-n-butyl phthalate	ND		460	25	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4,6-Dinitro-2-methylphenol	ND		920	92	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4-Dinitrophenol	ND		1800	540	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4-Dinitrotoluene	ND		180	40	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,6-Dinitrotoluene	ND		140	14	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Di-n-octyl phthalate	ND		140	11	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Fluoranthene	ND		37	11	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Fluorene	ND		23	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Hexachlorobenzene	ND		46	14	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Hexachlorobutadiene	ND		46	14	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Hexachlorocyclopentadiene	ND		92	7.1	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Hexachloroethane	ND		140	4.0	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Indeno[1,2,3-cd]pyrene	ND		37	11	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Isophorone	ND		140	7.7	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
1-Methylnaphthalene	ND		28	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2-Methylnaphthalene	ND		46	8.1	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2-Methylphenol	ND		140	9.0	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
3 & 4 Methylphenol	ND		180	14	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Naphthalene	ND		23	4.6	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2-Nitroaniline	ND		92	14	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
3-Nitroaniline	ND		280	92	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Nitroaniline	ND		140	46	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Nitrobenzene	ND		180	18	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2-Nitrophenol	ND		180	5.7	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
4-Nitrophenol	ND		1800	160	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
N-Nitrosodi-n-propylamine	ND		180	20	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
N-Nitrosodiphenylamine	ND		55	7.4	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Pentachlorophenol	ND		370	58	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Phenanthrene	ND		55	5.4	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Phenol	ND		140	21	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
Pyrene	ND		55	12	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
1,2,4-Trichlorobenzene	ND		46	5.5	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4,5-Trichlorophenol	ND		180	7.5	ug/Kg		08/14/20 09:21	08/15/20 21:09	1
2,4,6-Trichlorophenol	ND		140	12	ug/Kg		08/14/20 09:21	08/15/20 21:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*57 - 120*	*08/14/20 09:21*	*08/15/20 21:09*	*1*
2-Fluorophenol (Surr)	*61*		*47 - 119*	*08/14/20 09:21*	*08/15/20 21:09*	*1*
Nitrobenzene-d5 (Surr)	*76*		*54 - 120*	*08/14/20 09:21*	*08/15/20 21:09*	*1*
Phenol-d5 (Surr)	*64*		*59 - 120*	*08/14/20 09:21*	*08/15/20 21:09*	*1*
Terphenyl-d14 (Surr)	*99*		*73 - 125*	*08/14/20 09:21*	*08/15/20 21:09*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*52 - 115*	*08/14/20 09:21*	*08/15/20 21:09*	*1*

Client Sample ID: KLF - 1 - 6
Date Collected: 08/11/20 09:42
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		38	4.4	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Acenaphthylene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Anthracene	ND		57	15	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzo[a]anthracene	ND		38	11	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzo[a]pyrene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzo[b]fluoranthene	ND		38	9.6	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzo[g,h,i]perylene	ND		57	17	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzoic acid	ND		3800	1200	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzo[k]fluoranthene	ND		57	13	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Benzyl alcohol	ND		960	48	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Bis(2-chloroethoxy)methane	ND		190	17	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Bis(2-chloroethyl)ether	ND		96	7.4	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
bis(chloroisopropyl) ether	ND		190	5.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Bis(2-ethylhexyl) phthalate	ND		570	68	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Bromophenyl phenyl ether	ND		190	8.7	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Butyl benzyl phthalate	ND		190	49	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Carbazole	ND		140	7.0	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Chloroaniline	ND		1400	130	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Chloro-3-methylphenol	ND		140	32	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Chloronaphthalene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Chlorophenol	ND		190	3.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Chlorophenyl phenyl ether	ND		190	6.0	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Chrysene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Dibenz(a,h)anthracene	ND		48	11	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Dibenzofuran	ND		140	5.7	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
1,2-Dichlorobenzene	ND		48	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
1,3-Dichlorobenzene	ND		48	4.6	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
1,4-Dichlorobenzene	ND		48	8.0	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
3,3'-Dichlorobenzidine	ND		380	80	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4-Dichlorophenol	ND		190	57	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Diethyl phthalate	ND		380	21	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4-Dimethylphenol	ND		190	57	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Dimethyl phthalate	ND		140	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Di-n-butyl phthalate	ND		480	26	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4,6-Dinitro-2-methylphenol	ND		960	96	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4-Dinitrophenol	ND		1900	560	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4-Dinitrotoluene	ND		190	41	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,6-Dinitrotoluene	ND		140	14	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Di-n-octyl phthalate	ND		140	11	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Fluoranthene	ND		38	11	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Fluorene	ND		24	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: KLF - 1 - 6
Date Collected: 08/11/20 09:42
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		48	14	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Hexachlorobutadiene	ND		48	14	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Hexachlorocyclopentadiene	ND		96	7.4	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Hexachloroethane	ND		140	4.1	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Indeno[1,2,3-cd]pyrene	ND		38	11	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Isophorone	ND		140	8.0	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
1-Methylnaphthalene	**19**	**J**	29	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Methylnaphthalene	**83**		48	8.4	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Methylphenol	ND		140	9.4	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
3 & 4 Methylphenol	ND		190	14	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Naphthalene	**22**	**J**	24	4.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Nitroaniline	ND		96	14	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
3-Nitroaniline	ND		290	96	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Nitroaniline	ND		140	48	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Nitrobenzene	ND		190	19	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2-Nitrophenol	ND		190	5.9	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
4-Nitrophenol	ND		1900	160	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
N-Nitrosodi-n-propylamine	ND		190	21	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
N-Nitrosodiphenylamine	ND		57	7.7	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Pentachlorophenol	ND		380	60	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Phenanthrene	ND		57	5.6	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Phenol	ND		140	22	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
Pyrene	ND		57	12	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
1,2,4-Trichlorobenzene	ND		48	5.7	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4,5-Trichlorophenol	ND		190	7.8	ug/Kg		08/14/20 09:21	08/15/20 22:20	1
2,4,6-Trichlorophenol	ND		140	12	ug/Kg		08/14/20 09:21	08/15/20 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*57 - 120*	*08/14/20 09:21*	*08/15/20 22:20*	*1*
2-Fluorophenol (Surr)	*77*		*47 - 119*	*08/14/20 09:21*	*08/15/20 22:20*	*1*
Nitrobenzene-d5 (Surr)	*77*		*54 - 120*	*08/14/20 09:21*	*08/15/20 22:20*	*1*
Phenol-d5 (Surr)	*76*		*59 - 120*	*08/14/20 09:21*	*08/15/20 22:20*	*1*
Terphenyl-d14 (Surr)	*99*		*73 - 125*	*08/14/20 09:21*	*08/15/20 22:20*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*52 - 115*	*08/14/20 09:21*	*08/15/20 22:20*	*1*

Client Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: KLF - 9 — **Lab Sample ID: 570-35629-1**
Date Collected: 08/11/20 07:32 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	380		4.2	1.9	mg/Kg		08/24/20 12:25	08/25/20 01:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*50 - 150*	*08/24/20 12:25*	*08/25/20 01:40*	*1*

Client Sample ID: KLF - 8 — **Lab Sample ID: 570-35629-2**
Date Collected: 08/11/20 08:24 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	18		5.3	2.4	mg/Kg		08/24/20 12:25	08/25/20 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*	*08/24/20 12:25*	*08/25/20 02:04*	*1*

Client Sample ID: KLF - 7 — **Lab Sample ID: 570-35629-3**
Date Collected: 08/11/20 09:17 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	5.6		4.8	2.2	mg/Kg		08/24/20 12:25	08/25/20 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*50 - 150*	*08/24/20 12:25*	*08/25/20 02:28*	*1*

Client Sample ID: KLF - 1 - 3 — **Lab Sample ID: 570-35629-4**
Date Collected: 08/11/20 09:31 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3.0	J	5.4	2.5	mg/Kg		08/24/20 12:25	08/25/20 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*50 - 150*	*08/24/20 12:25*	*08/25/20 02:52*	*1*

Client Sample ID: KLF - 1 - 6 — **Lab Sample ID: 570-35629-5**
Date Collected: 08/11/20 09:42 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	3.5	J	5.5	2.5	mg/Kg		08/24/20 12:25	08/25/20 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*50 - 150*	*08/24/20 12:25*	*08/25/20 04:05*	*1*

General Chemistry

Client Sample ID: KLF - 9 — **Lab Sample ID: 570-35629-1**
Date Collected: 08/11/20 07:32 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.0		0.1	0.1	%			08/13/20 19:38	1
Percent Moisture	12.0		0.1	0.1	%			08/13/20 19:38	1

Client Sample ID: KLF - 8 — **Lab Sample ID: 570-35629-2**
Date Collected: 08/11/20 08:24 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	89.9		0.1	0.1	%			08/13/20 19:38	1
Percent Moisture	10.1		0.1	0.1	%			08/13/20 19:38	1

Client Sample ID: KLF - 7 — **Lab Sample ID: 570-35629-3**
Date Collected: 08/11/20 09:17 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.1		0.1	0.1	%			08/13/20 19:38	1
Percent Moisture	8.9		0.1	0.1	%			08/13/20 19:38	1

Client Sample ID: KLF - 1 - 3 — **Lab Sample ID: 570-35629-4**
Date Collected: 08/11/20 09:31 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92.2		0.1	0.1	%			08/13/20 19:38	1
Percent Moisture	7.8		0.1	0.1	%			08/13/20 19:38	1

Client Sample ID: KLF - 1 - 6 — **Lab Sample ID: 570-35629-5**
Date Collected: 08/11/20 09:42 — **Matrix: Solid**
Date Received: 08/12/20 09:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	83.9		0.1	0.1	%			08/13/20 19:38	1
Percent Moisture	16.1		0.1	0.1	%			08/13/20 19:38	1

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	BFB	DBFM	DCA
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-121)
570-35629-1	KLF - 9	95	101	104	99
570-35629-2	KLF - 8	92	104	102	97
570-35629-3	KLF - 7	93	104	104	116
570-35629-4	KLF - 1 - 3	100	101	101	117
570-35629-5	KLF - 1 - 6	101	103	101	120
LCS 580-335585/2-A	Lab Control Sample	95	106	103	103
LCS 580-336155/2-A	Lab Control Sample	105	104	97	98
LCS 580-336530/2-A	Lab Control Sample	91	103	106	98
LCSD 580-335585/3-A	Lab Control Sample Dup	97	105	104	104
LCSD 580-336155/3-A	Lab Control Sample Dup	104	104	99	101
LCSD 580-336530/3-A	Lab Control Sample Dup	92	102	103	97
MB 580-335585/1-A	Method Blank	92	102	105	106
MB 580-336155/1-A	Method Blank	100	98	98	105
MB 580-336530/1-A	Method Blank	93	102	102	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHL	TBP
Lab Sample ID	Client Sample ID	(57-120)	(47-119)	(54-120)	(59-120)	(73-125)	(52-115)
570-35629-1	KLF - 9	76	71	70	72	91	79
570-35629-4	KLF - 1 - 3	77	61	76	64	99	87
570-35629-4 MS	KLF - 1 - 3	83	78	84	77	94	105
570-35629-4 MSD	KLF - 1 - 3	82	83	82	80	94	101
570-35629-5	KLF - 1 - 6	85	77	77	76	99	87
LCS 580-335619/2-A	Lab Control Sample	82	93	92	91	90	85
MB 580-335619/1-A	Method Blank	86	81	81	77	92	68

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB2
Lab Sample ID	Client Sample ID	(50-150)
570-35629-1	KLF - 9	115
570-35629-2	KLF - 8	94

Surrogate Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BFB2 (50-150)**							
570-35629-3	KLF - 7	92							
570-35629-4	KLF - 1 - 3	99							
570-35629-4 MS	KLF - 1 - 3	97							
570-35629-4 MSD	KLF - 1 - 3	93							
570-35629-5	KLF - 1 - 6	98							
LCS 580-336488/2-A	Lab Control Sample	86							
LCSD 580-336488/3-A	Lab Control Sample Dup	97							
MB 580-336488/1-A	Method Blank	91							

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 580-335585/1-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Toluene	ND		10	1.3	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
p/m-Xylene	ND		10	0.56	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/13/20 13:30	08/14/20 11:39	1
Xylenes, Total	ND		10	0.92	ug/Kg		08/13/20 13:30	08/14/20 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*	*08/13/20 13:30*	*08/14/20 11:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*	*08/13/20 13:30*	*08/14/20 11:39*	*1*

Lab Sample ID: LCS 580-335585/2-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	23.89		ug/Kg		119	79 - 135		
Toluene			20.0	22.47		ug/Kg		112	75 - 137		
Ethylbenzene			20.0	22.87		ug/Kg		114	80 - 135		
p/m-Xylene			20.0	23.59		ug/Kg		118	80 - 132		
o-Xylene			20.0	23.84		ug/Kg		119	80 - 132		
Xylenes, Total			40.0	47.43		ug/Kg		119	80 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 121*

Lab Sample ID: LCSD 580-335585/3-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335585

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	21.95		ug/Kg		110	79 - 135	8	31
Toluene			20.0	21.92		ug/Kg		110	75 - 137	2	34
Ethylbenzene			20.0	23.23		ug/Kg		116	80 - 135	2	37
p/m-Xylene			20.0	23.62		ug/Kg		118	80 - 132	0	38
o-Xylene			20.0	24.36		ug/Kg		122	80 - 132	2	39
Xylenes, Total			40.0	47.98		ug/Kg		120	80 - 136	1	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*

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

Lab Sample ID: LCSD 580-335585/3-A
Matrix: Solid
Analysis Batch: 335626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335585

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 121

Lab Sample ID: MB 580-336155/1-A
Matrix: Solid
Analysis Batch: 336146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.39	ug/Kg		08/20/20 10:39	08/20/20 14:25	1
Toluene	ND		10	1.3	ug/Kg		08/20/20 10:39	08/20/20 14:25	1
Ethylbenzene	ND		2.0	0.41	ug/Kg		08/20/20 10:39	08/20/20 14:25	1
p/m-Xylene	ND		10	0.56	ug/Kg		08/20/20 10:39	08/20/20 14:25	1
o-Xylene	ND		5.0	0.92	ug/Kg		08/20/20 10:39	08/20/20 14:25	1
Xylenes, Total	ND		10	0.92	ug/Kg		08/20/20 10:39	08/20/20 14:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120	08/20/20 10:39	08/20/20 14:25	1
4-Bromofluorobenzene (Surr)	98		80 - 120	08/20/20 10:39	08/20/20 14:25	1
Dibromofluoromethane (Surr)	98		80 - 120	08/20/20 10:39	08/20/20 14:25	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 121	08/20/20 10:39	08/20/20 14:25	1

Lab Sample ID: LCS 580-336155/2-A
Matrix: Solid
Analysis Batch: 336146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	17.20		ug/Kg		86	79 - 135
Toluene	20.0	18.66		ug/Kg		93	75 - 137
Ethylbenzene	20.0	19.99		ug/Kg		100	80 - 135
p/m-Xylene	20.0	20.54		ug/Kg		103	80 - 132
o-Xylene	20.0	21.26		ug/Kg		106	80 - 132
Xylenes, Total	40.0	41.80		ug/Kg		105	80 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
1,2-Dichloroethane-d4 (Surr)	98		80 - 121

Lab Sample ID: LCSD 580-336155/3-A
Matrix: Solid
Analysis Batch: 336146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 336155

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.83		ug/Kg		99	79 - 135	14	31
Toluene	20.0	22.97		ug/Kg		115	75 - 137	21	34
Ethylbenzene	20.0	25.11		ug/Kg		126	80 - 135	23	37
p/m-Xylene	20.0	25.98		ug/Kg		130	80 - 132	23	38
o-Xylene	20.0	26.67	*	ug/Kg		133	80 - 132	23	39

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

Lab Sample ID: LCSD 580-336155/3-A
Matrix: Solid
Analysis Batch: 336146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 336155

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			40.0	52.65	*1	ug/Kg		132	80 - 136	23	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 121*

Lab Sample ID: MB 580-336530/1-A
Matrix: Solid
Analysis Batch: 336581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		30	3.8	ug/Kg		08/24/20 17:50	08/25/20 01:37	1
Toluene	ND		150	14	ug/Kg		08/24/20 17:50	08/25/20 01:37	1
Ethylbenzene	ND		40	9.1	ug/Kg		08/24/20 17:50	08/25/20 01:37	1
m-Xylene & p-Xylene	ND		200	15	ug/Kg		08/24/20 17:50	08/25/20 01:37	1
o-Xylene	ND		60	13	ug/Kg		08/24/20 17:50	08/25/20 01:37	1
Xylenes, Total	ND		200	15	ug/Kg		08/24/20 17:50	08/25/20 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*	*08/24/20 17:50*	*08/25/20 01:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*	*08/24/20 17:50*	*08/25/20 01:37*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*	*08/24/20 17:50*	*08/25/20 01:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 121*	*08/24/20 17:50*	*08/25/20 01:37*	*1*

Lab Sample ID: LCS 580-336530/2-A
Matrix: Solid
Analysis Batch: 336581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336530

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			800	1012		ug/Kg		127	79 - 135		
Toluene			800	846.5		ug/Kg		106	75 - 137		
Ethylbenzene			800	850.5		ug/Kg		106	80 - 135		
m-Xylene & p-Xylene			800	844.7		ug/Kg		106	80 - 132		
o-Xylene			800	832.4		ug/Kg		104	80 - 132		
Xylenes, Total			1600	1677		ug/Kg		105	80 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 121*

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

Lab Sample ID: LCSD 580-336530/3-A
Matrix: Solid
Analysis Batch: 336581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 336530

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			800	1024		ug/Kg		128	79 - 135	1	31
Toluene			800	870.6		ug/Kg		109	75 - 137	3	34
Ethylbenzene			800	885.5		ug/Kg		111	80 - 135	4	37
m-Xylene & p-Xylene			800	871.2		ug/Kg		109	80 - 132	3	38
o-Xylene			800	860.5		ug/Kg		108	80 - 132	3	39
Xylenes, Total			1600	1732		ug/Kg		108	80 - 136	3	19

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 121*

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

Lab Sample ID: MB 580-335619/1-A
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		40	4.6	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Acenaphthylene	ND		25	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Anthracene	ND		60	16	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzo[a]anthracene	ND		40	11	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzo[a]pyrene	ND		60	13	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzo[b]fluoranthene	ND		40	10	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzo[g,h,i]perylene	ND		60	18	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzoic acid	ND		4000	1200	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzo[k]fluoranthene	ND		60	14	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Benzyl alcohol	ND		1000	50	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Bis(2-chloroethoxy)methane	ND		200	18	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Bis(2-chloroethyl)ether	ND		100	7.7	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
bis(chloroisopropyl) ether	ND		200	6.1	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Bis(2-ethylhexyl) phthalate	ND		600	71	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Bromophenyl phenyl ether	ND		200	9.1	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Butyl benzyl phthalate	ND		200	51	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Carbazole	ND		150	7.3	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Chloroaniline	ND		1500	130	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Chloro-3-methylphenol	ND		150	33	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Chloronaphthalene	ND		25	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Chlorophenol	ND		200	4.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Chlorophenyl phenyl ether	ND		200	6.3	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Chrysene	ND		60	13	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Dibenz(a,h)anthracene	ND		50	12	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Dibenzofuran	ND		150	5.9	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
1,2-Dichlorobenzene	ND		50	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
1,3-Dichlorobenzene	ND		50	4.8	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
1,4-Dichlorobenzene	ND		50	8.3	ug/Kg		08/14/20 09:21	08/15/20 16:21	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-335619/1-A
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		400	84	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4-Dichlorophenol	ND		200	60	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Diethyl phthalate	ND		400	22	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4-Dimethylphenol	ND		200	60	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Dimethyl phthalate	ND		150	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Di-n-butyl phthalate	ND		500	27	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4,6-Dinitro-2-methylphenol	ND		1000	100	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4-Dinitrophenol	ND		2000	590	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4-Dinitrotoluene	ND		200	43	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,6-Dinitrotoluene	ND		150	15	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Di-n-octyl phthalate	ND		150	12	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Fluoranthene	ND		40	12	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Fluorene	ND		25	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Hexachlorobenzene	ND		50	15	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Hexachlorobutadiene	ND		50	15	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Hexachlorocyclopentadiene	ND		100	7.7	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Hexachloroethane	ND		150	4.3	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Indeno[1,2,3-cd]pyrene	ND		40	12	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Isophorone	ND		150	8.4	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
1-Methylnaphthalene	ND		30	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Methylnaphthalene	ND		50	8.8	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Methylphenol	ND		150	9.8	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
3 & 4 Methylphenol	ND		200	15	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Naphthalene	ND		25	5.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Nitroaniline	ND		100	15	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
3-Nitroaniline	ND		300	100	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Nitroaniline	ND		150	50	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Nitrobenzene	ND		200	20	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2-Nitrophenol	ND		200	6.2	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
4-Nitrophenol	ND		2000	170	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
N-Nitrosodi-n-propylamine	ND		200	22	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
N-Nitrosodiphenylamine	ND		60	8.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Pentachlorophenol	ND		400	63	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Phenanthrene	ND		60	5.8	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Phenol	ND		150	23	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
Pyrene	ND		60	13	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
1,2,4-Trichlorobenzene	ND		50	6.0	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4,5-Trichlorophenol	ND		200	8.1	ug/Kg		08/14/20 09:21	08/15/20 16:21	1
2,4,6-Trichlorophenol	ND		150	13	ug/Kg		08/14/20 09:21	08/15/20 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*57 - 120*	*08/14/20 09:21*	*08/15/20 16:21*	*1*
2-Fluorophenol (Surr)	*81*		*47 - 119*	*08/14/20 09:21*	*08/15/20 16:21*	*1*
Nitrobenzene-d5 (Surr)	*81*		*54 - 120*	*08/14/20 09:21*	*08/15/20 16:21*	*1*
Phenol-d5 (Surr)	*77*		*59 - 120*	*08/14/20 09:21*	*08/15/20 16:21*	*1*
Terphenyl-d14 (Surr)	*92*		*73 - 125*	*08/14/20 09:21*	*08/15/20 16:21*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*52 - 115*	*08/14/20 09:21*	*08/15/20 16:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-335619/2-A
Matrix: Solid
Analysis Batch: 335878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1000	881.5		ug/Kg		88	64 - 120
Acenaphthylene	1000	847.0		ug/Kg		85	63 - 120
Anthracene	1000	987.2		ug/Kg		99	67 - 131
Benzo[a]anthracene	1000	929.3		ug/Kg		93	60 - 135
Benzo[a]pyrene	1000	955.2		ug/Kg		96	62 - 129
Benzo[b]fluoranthene	1000	1047		ug/Kg		105	58 - 136
Benzo[g,h,i]perylene	1000	793.9		ug/Kg		79	64 - 146
Benzoic acid	2000	ND		ug/Kg		42	10 - 120
Benzo[k]fluoranthene	1000	946.1		ug/Kg		95	68 - 123
Benzyl alcohol	1000	829.2	J	ug/Kg		83	10 - 134
Bis(2-chloroethoxy)methane	1000	946.6		ug/Kg		95	60 - 120
Bis(2-chloroethyl)ether	1000	938.4		ug/Kg		94	61 - 120
bis(chloroisopropyl) ether	1000	879.7		ug/Kg		88	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946.2		ug/Kg		95	45 - 150
4-Bromophenyl phenyl ether	1000	924.0		ug/Kg		92	65 - 127
Butyl benzyl phthalate	1000	1016		ug/Kg		102	58 - 150
Carbazole	1000	1168		ug/Kg		117	43 - 150
4-Chloroaniline	1000	310.5	J	ug/Kg		31	10 - 120
4-Chloro-3-methylphenol	1000	793.7		ug/Kg		79	55 - 120
2-Chloronaphthalene	1000	846.9		ug/Kg		85	65 - 120
2-Chlorophenol	1000	1004		ug/Kg		100	66 - 120
4-Chlorophenyl phenyl ether	1000	902.0		ug/Kg		90	70 - 120
Chrysene	1000	947.5		ug/Kg		95	69 - 127
Dibenz(a,h)anthracene	1000	884.4		ug/Kg		88	59 - 139
Dibenzofuran	1000	879.0		ug/Kg		88	68 - 120
1,2-Dichlorobenzene	1000	930.7		ug/Kg		93	62 - 120
1,3-Dichlorobenzene	1000	940.1		ug/Kg		94	57 - 120
1,4-Dichlorobenzene	1000	956.1		ug/Kg		96	57 - 120
3,3'-Dichlorobenzidine	2000	1799		ug/Kg		90	49 - 148
2,4-Dichlorophenol	1000	934.1		ug/Kg		93	63 - 120
Diethyl phthalate	1000	864.0		ug/Kg		86	66 - 135
2,4-Dimethylphenol	1000	964.5		ug/Kg		96	31 - 129
Dimethyl phthalate	1000	885.1		ug/Kg		89	71 - 120
Di-n-butyl phthalate	1000	957.1		ug/Kg		96	66 - 150
4,6-Dinitro-2-methylphenol	2000	994.0	J	ug/Kg		50	13 - 141
2,4-Dinitrophenol	2000	649.9	J	ug/Kg		32	10 - 139
2,4-Dinitrotoluene	1000	840.6		ug/Kg		84	63 - 120
2,6-Dinitrotoluene	1000	856.8		ug/Kg		86	70 - 126
Di-n-octyl phthalate	1000	968.5		ug/Kg		97	53 - 150
Fluoranthene	1000	1001		ug/Kg		100	69 - 133
Fluorene	1000	875.7		ug/Kg		88	68 - 121
Hexachlorobenzene	1000	871.9		ug/Kg		87	65 - 126
Hexachlorobutadiene	1000	970.5		ug/Kg		97	64 - 130
Hexachlorocyclopentadiene	1000	823.0		ug/Kg		82	53 - 131
Hexachloroethane	1000	939.7		ug/Kg		94	57 - 132
Indeno[1,2,3-cd]pyrene	1000	729.9		ug/Kg		73	52 - 146
Isophorone	1000	965.9		ug/Kg		97	61 - 128
1-Methylnaphthalene	1000	896.5		ug/Kg		90	69 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-335619/2-A
Matrix: Solid
Analysis Batch: 335878

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	1000	911.7		ug/Kg		91	70 - 120
2-Methylphenol	1000	827.9		ug/Kg		83	53 - 120
3 & 4 Methylphenol	1000	907.2		ug/Kg		91	54 - 120
Naphthalene	1000	905.5		ug/Kg		91	68 - 120
2-Nitroaniline	1000	813.1		ug/Kg		81	54 - 126
3-Nitroaniline	1000	530.5		ug/Kg		53	34 - 120
4-Nitroaniline	1000	826.4		ug/Kg		83	36 - 141
Nitrobenzene	1000	882.1		ug/Kg		88	57 - 128
2-Nitrophenol	1000	991.3		ug/Kg		99	49 - 123
4-Nitrophenol	2000	1113	J	ug/Kg		56	10 - 140
N-Nitrosodi-n-propylamine	1000	962.1		ug/Kg		96	56 - 138
N-Nitrosodiphenylamine	1000	910.5		ug/Kg		91	67 - 128
Pentachlorophenol	2000	1617		ug/Kg		81	10 - 120
Phenanthrene	1000	936.9		ug/Kg		94	68 - 126
Phenol	1000	968.1		ug/Kg		97	59 - 120
Pyrene	1000	996.4		ug/Kg		100	68 - 141
1,2,4-Trichlorobenzene	1000	963.8		ug/Kg		96	66 - 120
2,4,5-Trichlorophenol	1000	774.9		ug/Kg		77	41 - 120
2,4,6-Trichlorophenol	1000	863.3		ug/Kg		86	37 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*57 - 120*
2-Fluorophenol (Surr)	*93*		*47 - 119*
Nitrobenzene-d5 (Surr)	*92*		*54 - 120*
Phenol-d5 (Surr)	*91*		*59 - 120*
Terphenyl-d14 (Surr)	*90*		*73 - 125*
2,4,6-Tribromophenol (Surr)	*85*		*52 - 115*

Lab Sample ID: 570-35629-4 MS
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		916	828.2		ug/Kg		90	64 - 120
Acenaphthylene	ND		916	802.9		ug/Kg		88	63 - 120
Anthracene	ND		916	882.4		ug/Kg		96	67 - 131
Benzo[a]anthracene	ND		916	844.2		ug/Kg		92	60 - 135
Benzo[a]pyrene	ND		916	773.7		ug/Kg		84	62 - 129
Benzo[b]fluoranthene	ND		916	791.7		ug/Kg		86	58 - 136
Benzo[g,h,i]perylene	ND		916	609.4		ug/Kg		67	64 - 146
Benzoic acid	ND		1830	1170	J	ug/Kg		64	10 - 120
Benzo[k]fluoranthene	ND	F2	916	755.0		ug/Kg		82	68 - 123
Benzyl alcohol	ND		916	633.5	J	ug/Kg		69	10 - 134
Bis(2-chloroethoxy)methane	ND		916	734.8		ug/Kg		80	60 - 120
Bis(2-chloroethyl)ether	ND		916	718.8		ug/Kg		78	61 - 120
bis(chloroisopropyl) ether	ND		916	663.3		ug/Kg		72	55 - 120
Bis(2-ethylhexyl) phthalate	ND		916	901.5		ug/Kg		98	45 - 150
4-Bromophenyl phenyl ether	ND		916	899.4		ug/Kg		98	65 - 127

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-35629-4 MS
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	ND		916	959.9		ug/Kg		105	58 - 150
Carbazole	ND		916	1061		ug/Kg		116	43 - 150
4-Chloroaniline	ND		916	554.1	J	ug/Kg		61	10 - 120
4-Chloro-3-methylphenol	ND		916	784.7		ug/Kg		86	55 - 120
2-Chloronaphthalene	ND		916	787.6		ug/Kg		86	65 - 120
2-Chlorophenol	ND		916	846.4		ug/Kg		92	66 - 120
4-Chlorophenyl phenyl ether	ND		916	836.8		ug/Kg		91	70 - 120
Chrysene	ND		916	829.2		ug/Kg		91	69 - 127
Dibenz(a,h)anthracene	ND		916	714.3		ug/Kg		78	59 - 139
Dibenzofuran	ND		916	849.5		ug/Kg		93	68 - 120
1,2-Dichlorobenzene	ND		916	778.2		ug/Kg		85	62 - 120
1,3-Dichlorobenzene	ND		916	767.3		ug/Kg		84	57 - 120
1,4-Dichlorobenzene	ND		916	791.7		ug/Kg		86	57 - 120
3,3'-Dichlorobenzidine	ND		1830	1691		ug/Kg		92	49 - 148
2,4-Dichlorophenol	ND		916	861.4		ug/Kg		94	63 - 120
Diethyl phthalate	ND		916	844.8		ug/Kg		92	66 - 135
2,4-Dimethylphenol	ND		916	856.8		ug/Kg		94	31 - 129
Dimethyl phthalate	ND		916	839.1		ug/Kg		92	71 - 120
Di-n-butyl phthalate	ND		916	955.0		ug/Kg		104	66 - 150
4,6-Dinitro-2-methylphenol	ND		1830	1690		ug/Kg		92	13 - 141
2,4-Dinitrophenol	ND		1830	1587	J	ug/Kg		87	10 - 139
2,4-Dinitrotoluene	ND		916	836.0		ug/Kg		91	63 - 120
2,6-Dinitrotoluene	ND		916	836.9		ug/Kg		91	70 - 126
Di-n-octyl phthalate	ND		916	848.9		ug/Kg		93	53 - 150
Fluoranthene	ND		916	937.6		ug/Kg		102	69 - 133
Fluorene	ND		916	840.5		ug/Kg		92	68 - 121
Hexachlorobenzene	ND		916	897.6		ug/Kg		98	65 - 126
Hexachlorobutadiene	ND		916	921.7		ug/Kg		101	64 - 130
Hexachlorocyclopentadiene	ND		916	755.0		ug/Kg		82	53 - 131
Hexachloroethane	ND		916	774.5		ug/Kg		85	57 - 132
Indeno[1,2,3-cd]pyrene	ND		916	625.6		ug/Kg		68	52 - 146
Isophorone	ND		916	766.5		ug/Kg		84	61 - 128
1-Methylnaphthalene	ND		916	825.0		ug/Kg		90	69 - 120
2-Methylnaphthalene	ND		916	833.5		ug/Kg		91	70 - 120
2-Methylphenol	ND		916	701.8		ug/Kg		77	53 - 120
3 & 4 Methylphenol	ND		916	763.6		ug/Kg		83	54 - 120
Naphthalene	ND		916	821.8		ug/Kg		90	68 - 120
2-Nitroaniline	ND		916	806.9		ug/Kg		88	54 - 126
3-Nitroaniline	ND		916	586.9		ug/Kg		64	34 - 120
4-Nitroaniline	ND		916	758.3		ug/Kg		83	36 - 141
Nitrobenzene	ND		916	804.8		ug/Kg		88	57 - 128
2-Nitrophenol	ND		916	962.8		ug/Kg		105	49 - 123
4-Nitrophenol	ND		1830	1657	J	ug/Kg		90	10 - 140
N-Nitrosodi-n-propylamine	ND		916	747.6		ug/Kg		82	56 - 138
N-Nitrosodiphenylamine	ND		916	860.9		ug/Kg		94	67 - 128
Pentachlorophenol	ND		1830	1730		ug/Kg		94	10 - 120
Phenanthrene	ND		916	857.9		ug/Kg		94	68 - 126
Phenol	ND		916	789.4		ug/Kg		86	59 - 120
Pyrene	ND		916	910.0		ug/Kg		99	68 - 141

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-35629-4 MS
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		916	823.6		ug/Kg		90	66 - 120
2,4,5-Trichlorophenol	ND		916	750.3		ug/Kg		82	41 - 120
2,4,6-Trichlorophenol	ND		916	822.2		ug/Kg		90	37 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*57 - 120*
2-Fluorophenol (Surr)	*78*		*47 - 119*
Nitrobenzene-d5 (Surr)	*84*		*54 - 120*
Phenol-d5 (Surr)	*77*		*59 - 120*
Terphenyl-d14 (Surr)	*94*		*73 - 125*
2,4,6-Tribromophenol (Surr)	*105*		*52 - 115*

Lab Sample ID: 570-35629-4 MSD
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		968	856.9		ug/Kg		89	64 - 120	3	19
Acenaphthylene	ND		968	826.6		ug/Kg		85	63 - 120	3	18
Anthracene	ND		968	925.4		ug/Kg		96	67 - 131	5	28
Benzo[a]anthracene	ND		968	905.4		ug/Kg		94	60 - 135	7	21
Benzo[a]pyrene	ND		968	882.7		ug/Kg		91	62 - 129	13	27
Benzo[b]fluoranthene	ND		968	907.0		ug/Kg		94	58 - 136	14	25
Benzo[g,h,i]perylene	ND		968	685.9		ug/Kg		71	64 - 146	12	26
Benzoic acid	ND		1940	1350	J	ug/Kg		70	10 - 120	14	40
Benzo[k]fluoranthene	ND	F2	968	913.7	F2	ug/Kg		94	68 - 123	19	18
Benzyl alcohol	ND		968	733.9	J	ug/Kg		76	10 - 134	15	40
Bis(2-chloroethoxy)methane	ND		968	842.9		ug/Kg		87	60 - 120	14	33
Bis(2-chloroethyl)ether	ND		968	827.5		ug/Kg		85	61 - 120	14	30
bis(chloroisopropyl) ether	ND		968	721.3		ug/Kg		75	55 - 120	8	33
Bis(2-ethylhexyl) phthalate	ND		968	951.2		ug/Kg		98	45 - 150	5	25
4-Bromophenyl phenyl ether	ND		968	937.8		ug/Kg		97	65 - 127	4	32
Butyl benzyl phthalate	ND		968	1007		ug/Kg		104	58 - 150	5	27
Carbazole	ND		968	1096		ug/Kg		113	43 - 150	3	24
4-Chloroaniline	ND		968	528.6	J	ug/Kg		55	10 - 120	5	40
4-Chloro-3-methylphenol	ND		968	846.0		ug/Kg		87	55 - 120	8	25
2-Chloronaphthalene	ND		968	842.2		ug/Kg		87	65 - 120	7	21
2-Chlorophenol	ND		968	902.7		ug/Kg		93	66 - 120	6	32
4-Chlorophenyl phenyl ether	ND		968	906.5		ug/Kg		94	70 - 120	8	21
Chrysene	ND		968	889.9		ug/Kg		92	69 - 127	7	27
Dibenz(a,h)anthracene	ND		968	804.4		ug/Kg		83	59 - 139	12	29
Dibenzofuran	ND		968	876.7		ug/Kg		91	68 - 120	3	18
1,2-Dichlorobenzene	ND		968	846.4		ug/Kg		87	62 - 120	8	30
1,3-Dichlorobenzene	ND		968	844.3		ug/Kg		87	57 - 120	10	29
1,4-Dichlorobenzene	ND		968	865.0		ug/Kg		89	57 - 120	9	35
3,3'-Dichlorobenzidine	ND		1940	1788		ug/Kg		92	49 - 148	6	40
2,4-Dichlorophenol	ND		968	915.1		ug/Kg		95	63 - 120	6	19
Diethyl phthalate	ND		968	873.5		ug/Kg		90	66 - 135	3	22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-35629-4 MSD
Matrix: Solid
Analysis Batch: 335747

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA
Prep Batch: 335619

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dimethylphenol	ND		968	893.7		ug/Kg		92	31 - 129	4	40
Dimethyl phthalate	ND		968	869.0		ug/Kg		90	71 - 120	4	21
Di-n-butyl phthalate	ND		968	997.5		ug/Kg		103	66 - 150	4	26
4,6-Dinitro-2-methylphenol	ND		1940	1851		ug/Kg		96	13 - 141	9	40
2,4-Dinitrophenol	ND		1940	1709	J	ug/Kg		88	10 - 139	7	40
2,4-Dinitrotoluene	ND		968	913.2		ug/Kg		94	63 - 120	9	23
2,6-Dinitrotoluene	ND		968	857.8		ug/Kg		89	70 - 126	2	18
Di-n-octyl phthalate	ND		968	975.4		ug/Kg		101	53 - 150	14	18
Fluoranthene	ND		968	988.0		ug/Kg		102	69 - 133	5	21
Fluorene	ND		968	880.9		ug/Kg		91	68 - 121	5	17
Hexachlorobenzene	ND		968	969.7		ug/Kg		100	65 - 126	8	32
Hexachlorobutadiene	ND		968	968.2		ug/Kg		100	64 - 130	5	19
Hexachlorocyclopentadiene	ND		968	771.0		ug/Kg		80	53 - 131	2	21
Hexachloroethane	ND		968	857.2		ug/Kg		89	57 - 132	10	34
Indeno[1,2,3-cd]pyrene	ND		968	719.6		ug/Kg		74	52 - 146	14	30
Isophorone	ND		968	836.0		ug/Kg		86	61 - 128	9	31
1-Methylnaphthalene	ND		968	885.9		ug/Kg		92	69 - 120	7	24
2-Methylnaphthalene	ND		968	888.9		ug/Kg		92	70 - 120	6	21
2-Methylphenol	ND		968	800.9		ug/Kg		83	53 - 120	13	40
3 & 4 Methylphenol	ND		968	880.4		ug/Kg		91	54 - 120	14	36
Naphthalene	ND		968	866.4		ug/Kg		89	68 - 120	5	15
2-Nitroaniline	ND		968	846.4		ug/Kg		87	54 - 126	5	16
3-Nitroaniline	ND		968	525.6		ug/Kg		54	34 - 120	11	25
4-Nitroaniline	ND		968	733.5		ug/Kg		76	36 - 141	3	23
Nitrobenzene	ND		968	868.4		ug/Kg		90	57 - 128	8	33
2-Nitrophenol	ND		968	1006		ug/Kg		104	49 - 123	4	30
4-Nitrophenol	ND		1940	1849	J	ug/Kg		95	10 - 140	11	31
N-Nitrosodi-n-propylamine	ND		968	823.5		ug/Kg		85	56 - 138	10	35
N-Nitrosodiphenylamine	ND		968	876.1		ug/Kg		91	67 - 128	2	30
Pentachlorophenol	ND		1940	1874		ug/Kg		97	10 - 120	8	40
Phenanthrene	ND		968	893.7		ug/Kg		92	68 - 126	4	27
Phenol	ND		968	890.3		ug/Kg		92	59 - 120	12	30
Pyrene	ND		968	951.0		ug/Kg		98	68 - 141	4	24
1,2,4-Trichlorobenzene	ND		968	894.4		ug/Kg		92	66 - 120	8	18
2,4,5-Trichlorophenol	ND		968	819.3		ug/Kg		85	41 - 120	9	23
2,4,6-Trichlorophenol	ND		968	850.4		ug/Kg		88	37 - 120	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*57 - 120*
2-Fluorophenol (Surr)	*83*		*47 - 119*
Nitrobenzene-d5 (Surr)	*82*		*54 - 120*
Phenol-d5 (Surr)	*80*		*59 - 120*
Terphenyl-d14 (Surr)	*94*		*73 - 125*
2,4,6-Tribromophenol (Surr)	*101*		*52 - 115*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-336488/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336485 — **Prep Batch: 336488**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		5.0	2.3	mg/Kg		08/24/20 12:25	08/24/20 20:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*50 - 150*	*08/24/20 12:25*	*08/24/20 20:02*	*1*

Lab Sample ID: LCS 580-336488/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336485 — **Prep Batch: 336488**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	40.0	33.83		mg/Kg		85	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*50 - 150*

Lab Sample ID: LCSD 580-336488/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336485 — **Prep Batch: 336488**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	40.0	36.56		mg/Kg		91	80 - 120	8	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Lab Sample ID: 570-35629-4 MS — **Client Sample ID: KLF - 1 - 3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336485 — **Prep Batch: 336488**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline	3.0	J	43.2	44.65		mg/Kg		96	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*

Lab Sample ID: 570-35629-4 MSD — **Client Sample ID: KLF - 1 - 3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 336485 — **Prep Batch: 336488**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	3.0	J	43.2	45.54		mg/Kg		98	80 - 120	2	10

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*50 - 150*

QC Sample Results

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Method: 2540G - SM 2540G

Lab Sample ID: 570-35629-4 DU
Matrix: Solid
Analysis Batch: 335609

Client Sample ID: KLF - 1 - 3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	92.2			90.9		%				1	20
Percent Moisture	7.8			9.1		%				15	20

QC Association Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

GC/MS VOA

Prep Batch: 335585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-3	KLF - 7	Total/NA	Solid	5035	
MB 580-335585/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-335585/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-335585/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 335626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-3	KLF - 7	Total/NA	Solid	8260D	335585
MB 580-335585/1-A	Method Blank	Total/NA	Solid	8260D	335585
LCS 580-335585/2-A	Lab Control Sample	Total/NA	Solid	8260D	335585
LCSD 580-335585/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	335585

Analysis Batch: 336146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-4	KLF - 1 - 3	Total/NA	Solid	8260D	336155
570-35629-5	KLF - 1 - 6	Total/NA	Solid	8260D	336155
MB 580-336155/1-A	Method Blank	Total/NA	Solid	8260D	336155
LCS 580-336155/2-A	Lab Control Sample	Total/NA	Solid	8260D	336155
LCSD 580-336155/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	336155

Prep Batch: 336155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-4	KLF - 1 - 3	Total/NA	Solid	5035	
570-35629-5	KLF - 1 - 6	Total/NA	Solid	5035	
MB 580-336155/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-336155/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-336155/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 336530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	5035	
570-35629-2	KLF - 8	Total/NA	Solid	5035	
MB 580-336530/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-336530/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-336530/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 336581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	8260D	336530
570-35629-2	KLF - 8	Total/NA	Solid	8260D	336530
MB 580-336530/1-A	Method Blank	Total/NA	Solid	8260D	336530
LCS 580-336530/2-A	Lab Control Sample	Total/NA	Solid	8260D	336530
LCSD 580-336530/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	336530

GC/MS Semi VOA

Prep Batch: 335619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	3546	
570-35629-4	KLF - 1 - 3	Total/NA	Solid	3546	
570-35629-5	KLF - 1 - 6	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 335619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 580-335619/1-A	Method Blank	Total/NA	Solid	3546	
LCS 580-335619/2-A	Lab Control Sample	Total/NA	Solid	3546	
570-35629-4 MS	KLF - 1 - 3	Total/NA	Solid	3546	
570-35629-4 MSD	KLF - 1 - 3	Total/NA	Solid	3546	

Analysis Batch: 335747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	8270D	335619
570-35629-4	KLF - 1 - 3	Total/NA	Solid	8270D	335619
570-35629-5	KLF - 1 - 6	Total/NA	Solid	8270D	335619
MB 580-335619/1-A	Method Blank	Total/NA	Solid	8270D	335619
570-35629-4 MS	KLF - 1 - 3	Total/NA	Solid	8270D	335619
570-35629-4 MSD	KLF - 1 - 3	Total/NA	Solid	8270D	335619

Analysis Batch: 335878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 580-335619/2-A	Lab Control Sample	Total/NA	Solid	8270D	335619

GC VOA

Analysis Batch: 336485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	NWTPH-Gx	336488
570-35629-2	KLF - 8	Total/NA	Solid	NWTPH-Gx	336488
570-35629-3	KLF - 7	Total/NA	Solid	NWTPH-Gx	336488
570-35629-4	KLF - 1 - 3	Total/NA	Solid	NWTPH-Gx	336488
570-35629-5	KLF - 1 - 6	Total/NA	Solid	NWTPH-Gx	336488
MB 580-336488/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	336488
LCS 580-336488/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	336488
LCSD 580-336488/3-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	336488
570-35629-4 MS	KLF - 1 - 3	Total/NA	Solid	NWTPH-Gx	336488
570-35629-4 MSD	KLF - 1 - 3	Total/NA	Solid	NWTPH-Gx	336488

Prep Batch: 336488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	5035	
570-35629-2	KLF - 8	Total/NA	Solid	5035	
570-35629-3	KLF - 7	Total/NA	Solid	5035	
570-35629-4	KLF - 1 - 3	Total/NA	Solid	5035	
570-35629-5	KLF - 1 - 6	Total/NA	Solid	5035	
MB 580-336488/1-A	Method Blank	Total/NA	Solid	5035	
LCS 580-336488/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 580-336488/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	
570-35629-4 MS	KLF - 1 - 3	Total/NA	Solid	5035	
570-35629-4 MSD	KLF - 1 - 3	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 335609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-1	KLF - 9	Total/NA	Solid	2540G	
570-35629-2	KLF - 8	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 335609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35629-3	KLF - 7	Total/NA	Solid	2540G	
570-35629-4	KLF - 1 - 3	Total/NA	Solid	2540G	
570-35629-5	KLF - 1 - 6	Total/NA	Solid	2540G	
570-35629-4 DU	KLF - 1 - 3	Total/NA	Solid	2540G	

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Client Sample ID: KLF - 9

Date Collected: 08/11/20 07:32
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.936 g	10 mL	336530	08/24/20 17:50	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	336581	08/25/20 02:58	CJ	TAL SEA
	Instrument ID:	TAC041								
Total/NA	Prep	3546			10.50 g	10 mL	335619	08/14/20 09:21	HBP	TAL SEA
Total/NA	Analysis	8270D		1			335747	08/15/20 20:45	W1T	TAL SEA
	Instrument ID:	TAC051								
Total/NA	Prep	5035			11.936 g	10 mL	336488	08/24/20 12:25	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336485	08/25/20 01:40	DCV	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335609	08/13/20 19:38	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF - 8

Date Collected: 08/11/20 08:24
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.422 g	10 mL	336530	08/24/20 17:50	ASJ	TAL SEA
Total/NA	Analysis	8260D		1	1.075 mL	43 mL	336581	08/25/20 03:25	CJ	TAL SEA
	Instrument ID:	TAC041								
Total/NA	Prep	5035			9.422 g	10 mL	336488	08/24/20 12:25	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336485	08/25/20 02:04	DCV	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335609	08/13/20 19:38	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF - 7

Date Collected: 08/11/20 09:17
Date Received: 08/12/20 09:40

Lab Sample ID: 570-35629-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.249 g	5 mL	335585	08/12/20 13:30	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	335626	08/14/20 14:34	CJ	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	5035			10.342 g	10 mL	336488	08/24/20 12:25	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336485	08/25/20 02:28	DCV	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335609	08/13/20 19:38	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Lab Chronicle

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Client Sample ID: KLF - 1 - 3

Lab Sample ID: 570-35629-4
Date Collected: 08/11/20 09:31
Matrix: Solid
Date Received: 08/12/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.457 g	5 mL	336155	08/12/20 09:40	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	336146	08/20/20 17:31	CJB	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	3546			10.84 g	10 mL	335619	08/14/20 09:21	HBP	TAL SEA
Total/NA	Analysis	8270D		1			335747	08/15/20 21:09	W1T	TAL SEA
	Instrument ID:	TAC051								
Total/NA	Prep	5035			9.251 g	10 mL	336488	08/24/20 12:25	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336485	08/25/20 02:52	DCV	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335609	08/13/20 19:38	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Client Sample ID: KLF - 1 - 6

Lab Sample ID: 570-35629-5
Date Collected: 08/11/20 09:42
Matrix: Solid
Date Received: 08/12/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.614 g	5 mL	336155	08/12/20 09:40	CJB	TAL SEA
Total/NA	Analysis	8260D		1	5 mL	5 mL	336146	08/20/20 17:57	CJB	TAL SEA
	Instrument ID:	TAC119								
Total/NA	Prep	3546			10.44 g	10 mL	335619	08/14/20 09:21	HBP	TAL SEA
Total/NA	Analysis	8270D		1			335747	08/15/20 22:20	W1T	TAL SEA
	Instrument ID:	TAC051								
Total/NA	Prep	5035			9.04 g	10 mL	336488	08/24/20 12:25	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	1.075 mL	43 mL	336485	08/25/20 04:05	DCV	TAL SEA
	Instrument ID:	SEA006								
Total/NA	Analysis	2540G		1			335609	08/13/20 19:38	HBP	TAL SEA
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-14-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-20-00031	02-10-23
Washington	State	C553	02-18-21

Method Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL SEA
2540G	SM 2540G	SM22	TAL SEA
3546	Microwave Extraction	SW846	TAL SEA
5035	Closed System Purge and Trap	SW846	TAL SEA

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SM22 = Standard Methods For The Examination Of Water And Wastewater, 22nd Edition

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Sample Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-35629-1	KLF - 9	Solid	08/11/20 07:32	08/12/20 09:40	
570-35629-2	KLF - 8	Solid	08/11/20 08:24	08/12/20 09:40	
570-35629-3	KLF - 7	Solid	08/11/20 09:17	08/12/20 09:40	
570-35629-4	KLF - 1 - 3	Solid	08/11/20 09:31	08/12/20 09:40	
570-35629-5	KLF - 1 - 6	Solid	08/11/20 09:42	08/12/20 09:40	

eurofins

Catalanta

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-35629 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 08/11/20

PAGE: 1 OF 1

LABORATORY CLIENT: Accounts Payable

ADDRESS: 7440 Lincoln Way

CITY: Garden Grove STATE: CA ZIP: 92841

TEL: 714-895-5494 E-MAIL: us26_ap@eurofinsus.com

CLIENT PROJECT NAME / NUMBER: XOM 72864

P.O. NO.:

PROJECT CONTACT: Wesley Willow (724) 612-0003

SAMPLER(S): (PRINT) William Rosso

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS • STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	8270D, Moisture, NWTPH_EPH	860D, NWTPH_Gx	NWTPH_VPH - CPH Reported with EPH	Moisture, NWTPH_EPH	8280D - (MOD) Benzene	8260D - BTEX
1	KLF - 9	11-Aug	732	S	7	2	5		X	X	X	X		X
2	KLF - 8	11-Aug	824	S	6	1	5			X			X	X
3	KLF - 7	11-Aug	917	S	6	1	5			X			X	X
4	KLF - 1 - 3	11-Aug	931	S	7	2	5		X	X	X	X		X
5	KLF - 1 - 6	11-Aug	942	S	7	2	5		X	X	X	X		X
4	KLF-1-3 MS/MSD	11-Aug	9:31	S	7	2	5		X	X	X	X		X

Therm. ID: IR6 Cor: 2.3 ° Unc: 2.3
Cooler Dsc: LB FedEx: P.O
Packing: Bub UPS:
Cust. Seal: Yes No ✓ Lab Cour:
Blue Ice Wet, Dry, None Other:

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	[signature]	08-11-20	
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 08-12-20	Time: 0940
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35629-1

Login Number: 35629
List Number: 1
Creator: Cruise, Noel

List Source: Eurofins Calscience

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

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35629-1

Login Number: 35629
List Number: 2
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 08/12/20 03:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35629-1

Login Number: 35629
List Number: 3
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 08/12/20 03:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Kleinfelder Inc

Job Number: 570-35629-1

Login Number: 35629
List Number: 4
Creator: Presley, Kim A

List Source: Eurofins TestAmerica, Seattle
List Creation: 08/12/20 03:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-35629-2
Client Project/Site: Former ExxonMobil 72864

For:
Kleinfelder Inc
2280 Market Street
Suite 300
Riverside, California 92501-3301

Attn: Mr. Wesley L Willow

Authorized for release by:
8/28/2020 11:27:41 AM

Cecile de Guia, Project Manager I
(714)895-5494
Cecile.deGuia@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 570-35629-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-35629-2

Comments
No additional comments.

Receipt
The samples were received on 8/12/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

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

Subcontract Work
Methods NWTPH - EPH, NWTPH - VPH: These methods were subcontracted to Analytical Resources, Inc. The subcontract laboratory certifications are different from that of the facility issuing the final report.

Sample Summary

Client: Kleinfelder Inc
Project/Site: Former ExxonMobil 72864

Job ID: 570-35629-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-35629-1	KLF - 9	Solid	08/11/20 07:32	08/12/20 09:40	
570-35629-4	KLF - 1 - 3	Solid	08/11/20 09:31	08/12/20 09:40	
570-35629-5	KLF - 1 - 6	Solid	08/11/20 09:42	08/12/20 09:40	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

27 August 2020

Cecile de Guia
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

RE: Former Exxonmobile 72864

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
20H0130	N/A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Cert# 100006

PJLA Testing
Accreditation # 66169

4611 S. 134th Place, Suite 100 • Tukwila, WA 98168 • Ph: (206) 695-6200 • Fax: (206) 695-6202

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

20H0130

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: de Guia, Cecile	Carrier Tracking No(s):	COC No: 570-45152.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Cecile.deGuia@eurofinset.com	State of Origin: Washington	Page: Page 1 of 1
Company: Analytical Resources, Inc		Accreditations Required (See note):		Job #: 570-35629-1
Address: 4611 South 134th Place, Suite 100,	Due Date Requested: 8/25/2020			
City: Tukwila	TAT Requested (days):			
State, Zip: WA, 98168				
Phone: 206-695-6200(Tel)	PO #:			
Email:	WO #:			
Project Name: Former ExxonMobil 72864	Project #: 57001933			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AshNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (NWTPH - EPH)/ NWTPH - EPH	SUB (NWTPH - VPH)/ NWTPH - VPH	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
KLF - 9 (570-35629-1)	8/11/20	07:32 Pacific		Solid			X	X	3	NWTPH - EPH/VPH. J values. Requires EIM edd. Invoice & report to Eurofins
KLF - 1 - 3 (570-35629-4)	8/11/20	09:31 Pacific		Solid			X	X	3	NWTPH - EPH/VPH. J values. Requires EIM edd. Invoice & report to Eurofins
KLF - 1 - 3 (570-35629-4MS)	8/11/20	09:31 Pacific	MS	Solid			X	X	1	NWTPH - EPH/VPH. J values. Requires EIM edd. Invoice & report to Eurofins
KLF - 1 - 3 (570-35629-4MSD)	8/11/20	09:31 Pacific	MSD	Solid			X	X	1	NWTPH - EPH/VPH. J values. Requires EIM edd. Invoice & report to Eurofins
KLF - 1 - 6 (570-35629-5)	8/11/20	09:42 Pacific		Solid			X	X	3	NWTPH - EPH/VPH. J values. Requires EIM edd. Invoice & report to Eurofins

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 8/13/20 0840	Company: TASEA	Received by: Courier third party	Date/Time:	Company	
Relinquished by: Courier third party	Date/Time:	Company	Received by:	Date/Time: 8/13/2020 0937	Company: ARI	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KLF-9 (570-35629-1)	20H0130-01	Solid	11-Aug-2020 07:32	13-Aug-2020 09:37
KLF-1-3 (570-35629-4)	20H0130-02	Solid	11-Aug-2020 09:31	13-Aug-2020 09:37
KLF-1-6 (570-35629-5)	20H0130-03	Solid	11-Aug-2020 09:42	13-Aug-2020 09:37

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Work Order Case Narrative

Sample receipt

Samples as listed on the preceding page were received 13-Aug-2020 09:37 under ARI work order 20H0130. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Extractable Organic Hydrocarbons - WA-Ecology

The samples were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within limits.

Volatile Petroleum Hydrocarbons - WA-Ecology VPH

The samples were analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits.

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within limits.

The matrix spike/matrix spike duplicate (MS/MSD) recoveries and relative percent difference (RPD) were within limits. With the exception of n-Octane and n-Decane which are outside of QC limits low. The results are advisory. No corrective action was taken.

Note that per the method, the C12-C13 Aromatic range for the VPH should only be used when VPH is run without an accompanying EPH method request.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Eurofins Ca

Project Name: Former Exxon Mobil 72864

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 20H0130

Tracking No: third party NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 0937 2.2 ___ ___ ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: DOO 5204

Cooler Accepted by: [signature] Date: 8/13/2020 Time: 0937

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA	_____	

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TJ Date: 08/13/2020 Time: 1037 Labels checked by: TJ

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-9 (570-35629-1)

20H0130-01 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 08/11/2020 07:32
Instrument: FID8 Analyst: JGR — Analyzed: 08/25/2020 00:18

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20H0130-01 A 01
Preparation Batch: BIH0371 — Sample Size: 10 g (wet) — Dry Weight:8.83 g
Prepared: 08/20/2020 — Final Volume: 1 mL — % Solids: 88.25

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20H0130-01 A 01
Cleanup Batch: CIH0127 — Initial Volume: 1 mL
Cleaned: 21-Aug-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2270	8920	ug/kg	
C10-C12 Aliphatics	ALI-C10-C12	1	2270	18800	ug/kg	
C12-C16 Aliphatics	ALI-C12-C16	1	2270	9120	ug/kg	
C16-C21 Aliphatics	ALI-C16-C21	1	2270	2310	ug/kg	
C21-C34 Aliphatics	ALI-C21-C34	1	2270	32200	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*61.7*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2270	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2270	2400	ug/kg	
C12-C16 Aromatics	ARO-C12-C16	1	2270	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2270	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2270	9600	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*69.7*	*%*	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Analytical Report

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-9 (570-35629-1)

20H0130-01 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 08/11/2020 07:32
Instrument: PID1 Analyst: PKC — Analyzed: 08/20/2020 16:33

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20H0130-01 B
Preparation Batch: BIH0384 — Sample Size: 9.918 g (wet) — Dry Weight:8.75 g
Prepared: 08/20/2020 — Final Volume: 5 mL — % Solids: 88.25

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	6340	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	6340	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	6340	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	6340	55700	ug/kg	
C8-C10 Aromatics	ARO-C8-C10	180	6340	20300	ug/kg	
C10-C12 Aromatics	ARO-C10-C12	180	6340	18000	ug/kg	
C12-C13 Aromatics	ARO-C12-C13	180	6340	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*89.4*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*87.3*	*%*	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-1-3 (570-35629-4)

20H0130-02 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 08/11/2020 09:31
Instrument: FID8 Analyst: JGR — Analyzed: 08/25/2020 00:42

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20H0130-02 A 01
Preparation Batch: BIH0371 — Sample Size: 10 g (wet) — Dry Weight:9.02 g
Prepared: 08/20/2020 — Final Volume: 1 mL — % Solids: 90.24

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20H0130-02 A 01
Cleanup Batch: CIH0127 — Initial Volume: 1 mL
Cleaned: 21-Aug-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2220	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2220	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2220	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2220	ND	ug/kg	U
C21-C34 Aliphatics	ALI-C21-C34	1	2220	4990	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*58.9*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2220	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2220	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2220	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2220	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2220	2330	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*67.3*	*%*	

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-1-3 (570-35629-4)

20H0130-02 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 08/11/2020 09:31

Instrument: PID1 Analyst: PKC — Analyzed: 08/20/2020 17:03

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20H0130-02 C

Preparation Batch: BIH0384 — Sample Size: 10.657 g (wet) — Dry Weight:9.62 g

Prepared: 08/20/2020 — Final Volume: 10 mL — % Solids: 90.24

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	10300	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	10300	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	10300	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	10300	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	10300	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	10300	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	10300	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*69.6*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*71.4*	*%*	

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-1-6 (570-35629-5)

20H0130-03 (Solid)

Washington Department of Ecology Methods

Method: WA EPH — Sampled: 08/11/2020 09:42
Instrument: FID8 Analyst: JGR — Analyzed: 08/25/2020 01:54

Sample Preparation: Preparation Method: EPA 3546 (Microwave) — Extract ID: 20H0130-03 A 01
Preparation Batch: BIH0371 — Sample Size: 10 g (wet) — Dry Weight:8.45 g
Prepared: 08/20/2020 — Final Volume: 1 mL — % Solids: 84.50

Sample Cleanup: Cleanup Method: Silica Gel — Extract ID: 20H0130-03 A 01
Cleanup Batch: CIH0127 — Initial Volume: 1 mL
Cleaned: 21-Aug-2020 — Final Volume: 1 mL

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aliphatics	ALI-C8-C10	1	2370	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	1	2370	ND	ug/kg	U
C12-C16 Aliphatics	ALI-C12-C16	1	2370	ND	ug/kg	U
C16-C21 Aliphatics	ALI-C16-C21	1	2370	ND	ug/kg	U
C21-C34 Aliphatics	ALI-C21-C34	1	2370	8520	ug/kg	
Surrogate: 1-Chloro-octadecane			*30-160 %*	*63.1*	*%*	

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C8-C10 Aromatics	ARO-C8-C10	1	2370	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	1	2370	ND	ug/kg	U
C12-C16 Aromatics	ARO-C12-C16	1	2370	ND	ug/kg	U
C16-C21 Aromatics	ARO-C16-C21	1	2370	ND	ug/kg	U
C21-C34 Aromatics	ARO-C21-C34	1	2370	3910	ug/kg	
Surrogate: o-Terphenyl			*30-160 %*	*68.1*	*%*	

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

KLF-1-6 (570-35629-5)

20H0130-03 (Solid)

Washington Department of Ecology Methods

Method: WA VPH — Sampled: 08/11/2020 09:42

Instrument: PID1 Analyst: PKC — Analyzed: 08/20/2020 17:33

Sample Preparation: Preparation Method: EPA 5035 (Methanol Extraction) — Extract ID: 20H0130-03 B

Preparation Batch: BIH0384 — Sample Size: 9.661 g (wet) — Dry Weight:8.16 g

Prepared: 08/20/2020 — Final Volume: 10 mL — % Solids: 84.50

Analyte	CAS Number	Dilution	Reporting Limit	Result	Units	Notes
C5-C6 Aliphatics	ALI-C5-C6	180	12700	ND	ug/kg	U
C6-C8 Aliphatics	ALI-C6-C8	180	12700	ND	ug/kg	U
C8-C10 Aliphatics	ALI-C8-C10	180	12700	ND	ug/kg	U
C10-C12 Aliphatics	ALI-C10-C12	180	12700	ND	ug/kg	U
C8-C10 Aromatics	ARO-C8-C10	180	12700	ND	ug/kg	U
C10-C12 Aromatics	ARO-C10-C12	180	12700	ND	ug/kg	U
C12-C13 Aromatics	ARO-C12-C13	180	12700	ND	ug/kg	U
Surrogate: PID: 2,5-Dibromotoluene			*60-140 %*	*89.7*	*%*	
Surrogate: FID: 2,5-Dibromotoluene			*60-140 %*	*88.3*	*%*	

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Washington Department of Ecology Methods - Quality Control

Batch BIH0371 - EPA 3546 (Microwave)

Instrument: FID8 Analyst: JGR

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIH0371-BLK1)				Prepared: 20-Aug-2020	Analyzed: 24-Aug-2020 23:30					
C8-C10 Aliphatics	ND	2000	ug/kg							U
C10-C12 Aliphatics	ND	2000	ug/kg							U
C12-C16 Aliphatics	ND	2000	ug/kg							U
C16-C21 Aliphatics	ND	2000	ug/kg							U
C21-C34 Aliphatics	ND	2000	ug/kg							U
Surrogate: 1-Chloro-octadecane	9640		ug/kg	*15000*		*64.3*	*30-160*			
Blank (BIH0371-BLK2)				Prepared: 20-Aug-2020	Analyzed: 24-Aug-2020 19:05					
C8-C10 Aromatics	ND	2000	ug/kg							U
C10-C12 Aromatics	ND	2000	ug/kg							U
C12-C16 Aromatics	ND	2000	ug/kg							U
C16-C21 Aromatics	ND	2000	ug/kg							U
C21-C34 Aromatics	ND	2000	ug/kg							U
Surrogate: o-Terphenyl	11500		ug/kg	*15000*		*76.5*	*30-160*			
LCS (BIH0371-BS1)				Prepared: 20-Aug-2020	Analyzed: 24-Aug-2020 23:54					
C10-C12 Aliphatics	8800	2000	ug/kg	15000		58.7	30-160			
C12-C16 Aliphatics	9850	2000	ug/kg	15000		65.7	30-160			
C16-C21 Aliphatics	11400	2000	ug/kg	15000		75.9	30-160			
C21-C34 Aliphatics	12500	2000	ug/kg	15000		83.6	30-160			
Surrogate: 1-Chloro-octadecane	10000		ug/kg	*15000*		*66.9*	*30-160*			
LCS (BIH0371-BS2)				Prepared: 20-Aug-2020	Analyzed: 24-Aug-2020 19:29					
C10-C12 Aromatics	5830	2000	ug/kg	15000		38.9	30-160			
C12-C16 Aromatics	7700	2000	ug/kg	15000		51.3	30-160			
C16-C21 Aromatics	23200	2000	ug/kg	30000		77.3	30-160			
Surrogate: o-Terphenyl	11100		ug/kg	*15000*		*73.7*	*30-160*			
Matrix Spike (BIH0371-MS1)		**Source: 20H0130-02**		Prepared: 20-Aug-2020	Analyzed: 25-Aug-2020 01:06					
C10-C12 Aliphatics	9360	2220	ug/kg	16600	ND	56.3	30-160			
C12-C16 Aliphatics	10800	2220	ug/kg	16600	ND	64.7	30-160			
C16-C21 Aliphatics	12200	2220	ug/kg	16600	ND	73.5	30-160			
C21-C34 Aliphatics	18500	2220	ug/kg	16600	4990	81.0	30-160			
Surrogate: 1-Chloro-octadecane	10900		ug/kg	*16600*	*9790*	*65.5*	*30-160*			

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Washington Department of Ecology Methods - Quality Control

Batch BIH0371 - EPA 3546 (Microwave)

Instrument: FID8 Analyst: JGR

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike (BIH0371-MS2)	**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 24-Aug-2020 20:42							
C10-C12 Aromatics	7770	2220	ug/kg	16600	ND	46.7	30-160			
C12-C16 Aromatics	9140	2220	ug/kg	16600	ND	55.0	30-160			
C16-C21 Aromatics	26300	2220	ug/kg	33200	ND	79.2	30-160			
Surrogate: o-Terphenyl	12600		ug/kg	*16600*	*11200*	*75.7*	*30-160*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BIH0371-MSD1)	**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 25-Aug-2020 01:30							
C10-C12 Aliphatics	11000	2220	ug/kg	16600	ND	66.3	30-160	16.20	30	
C12-C16 Aliphatics	10900	2220	ug/kg	16600	ND	65.7	30-160	1.43	30	
C16-C21 Aliphatics	12100	2220	ug/kg	16600	ND	72.9	30-160	0.91	30	
C21-C34 Aliphatics	19600	2220	ug/kg	16600	4990	87.9	30-160	6.06	30	
Surrogate: 1-Chloro-octadecane	10700		ug/kg	*16600*	*9790*	*64.7*	*30-160*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										
Matrix Spike Dup (BIH0371-MSD2)	**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 24-Aug-2020 21:06							
C10-C12 Aromatics	7870	2220	ug/kg	16600	ND	47.3	30-160	1.28	30	
C12-C16 Aromatics	9930	2220	ug/kg	16600	ND	59.7	30-160	8.25	30	
C16-C21 Aromatics	27800	2220	ug/kg	33200	ND	83.7	30-160	5.52	30	
Surrogate: o-Terphenyl	13300		ug/kg	*16600*	*11200*	*80.3*	*30-160*			
Recovery limits for target analytes in MS/MSD QC samples are advisory only.										

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Washington Department of Ecology Methods - Quality Control

Batch BIH0384 - EPA 5035 (Methanol Extraction)

Instrument: PID1 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (BIH0384-BLK1)				Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 11:36						
C5-C6 Aliphatics	ND	9000	ug/kg							U
C6-C8 Aliphatics	ND	9000	ug/kg							U
C8-C10 Aliphatics	ND	9000	ug/kg							U
C10-C12 Aliphatics	ND	9000	ug/kg							U
C8-C10 Aromatics	ND	9000	ug/kg							U
C10-C12 Aromatics	ND	9000	ug/kg							U
C12-C13 Aromatics	ND	9000	ug/kg							U
Methyl tert-butyl Ether	ND	900	ug/kg							U
Benzene	ND	900	ug/kg							U
Toluene	ND	900	ug/kg							U
Ethylbenzene	ND	900	ug/kg							U
m,p-Xylene	ND	1800	ug/kg							U
o-Xylene	ND	900	ug/kg							U
1,2,3-Trimethylbenzene	ND	900	ug/kg							U
Naphthalene	ND	900	ug/kg							U
1-Methylnaphthalene	ND	900	ug/kg							U
n-Pentane	ND	900	ug/kg							U
n-Hexane	ND	900	ug/kg							U
n-Octane	ND	900	ug/kg							U
n-Decane	ND	900	ug/kg							U
n-Dodecane	ND	900	ug/kg							U
Surrogate: PID: 2,5-Dibromotoluene	96.2		ug/kg	*100*		*96.2*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	94.8		ug/kg	*100*		*94.8*	*60-140*			
LCS (BIH0384-BS1)				Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 09:55						
Methyl tert-butyl Ether	9720	900	ug/kg	9000		108	70-130			
Benzene	9410	900	ug/kg	9000		105	70-130			
Toluene	10100	900	ug/kg	9000		112	70-130			
Ethylbenzene	9360	900	ug/kg	9000		104	70-130			
m,p-Xylene	19300	1800	ug/kg	18000		107	70-130			
o-Xylene	9630	900	ug/kg	9000		107	70-130			
1,2,3-Trimethylbenzene	10000	900	ug/kg	9000		112	70-130			
Naphthalene	9400	900	ug/kg	9000		104	70-130			
1-Methylnaphthalene	9360	900	ug/kg	9000		104	70-130			
n-Pentane	8500	900	ug/kg	9000		94.4	70-130			

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Washington Department of Ecology Methods - Quality Control

Batch BIH0384 - EPA 5035 (Methanol Extraction)

Instrument: PID1 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
LCS (BIH0384-BS1)				Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 09:55						
n-Hexane	9270	900	ug/kg	9000		103	70-130			
n-Octane	7360	900	ug/kg	9000		81.8	70-130			
n-Decane	7940	900	ug/kg	9000		88.2	70-130			
n-Dodecane	9410	900	ug/kg	9000		105	70-130			
Surrogate: PID: 2,5-Dibromotoluene	117		ug/kg	*100*		*117*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	111		ug/kg	*100*		*111*	*60-140*			
LCS Dup (BIH0384-BSD1)				Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 10:49						
Methyl tert-butyl Ether	11300	900	ug/kg	9000		125	70-130	14.60	30	
Benzene	9680	900	ug/kg	9000		108	70-130	2.83	30	
Toluene	10400	900	ug/kg	9000		116	70-130	3.69	30	
Ethylbenzene	9650	900	ug/kg	9000		107	70-130	3.03	30	
m,p-Xylene	20000	1800	ug/kg	18000		111	70-130	3.48	30	
o-Xylene	9850	900	ug/kg	9000		109	70-130	2.22	30	
1,2,3-Trimethylbenzene	10100	900	ug/kg	9000		113	70-130	0.89	30	
Naphthalene	9610	900	ug/kg	9000		107	70-130	2.27	30	
1-Methylnaphthalene	9670	900	ug/kg	9000		107	70-130	3.22	30	
n-Pentane	9040	900	ug/kg	9000		100	70-130	6.16	30	
n-Hexane	9720	900	ug/kg	9000		108	70-130	4.74	30	
n-Octane	7650	900	ug/kg	9000		85.0	70-130	3.84	30	
n-Decane	8260	900	ug/kg	9000		91.8	70-130	4.00	30	
n-Dodecane	10000	900	ug/kg	9000		112	70-130	6.48	30	
Surrogate: PID: 2,5-Dibromotoluene	119		ug/kg	*100*		*119*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	111		ug/kg	*100*		*111*	*60-140*			
Matrix Spike (BIH0384-MS1)		**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 19:35						
Methyl tert-butyl Ether	13300	1030	ug/kg	10300	ND	129	70-130			
Benzene	10800	1030	ug/kg	10300	ND	105	70-130			
Toluene	11700	1030	ug/kg	10300	ND	113	70-130			
Ethylbenzene	11100	1030	ug/kg	10300	ND	107	70-130			
m,p-Xylene	23100	2070	ug/kg	20700	ND	112	70-130			
o-Xylene	12200	1030	ug/kg	10300	723	111	70-130			
1,2,3-Trimethylbenzene	11600	1030	ug/kg	10300	ND	112	70-130			
Naphthalene	11400	1030	ug/kg	10300	ND	110	70-130			
1-Methylnaphthalene	11200	1030	ug/kg	10300	ND	109	70-130			

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
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Washington Department of Ecology Methods - Quality Control

Batch BIH0384 - EPA 5035 (Methanol Extraction)

Instrument: PID1 Analyst: PKC

QC Sample/Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BIH0384-MS1)	**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 19:35							
n-Pentane	9150	1030	ug/kg	10300	ND	88.6	70-130			
n-Hexane	8930	1030	ug/kg	10300	ND	86.4	70-130			
n-Octane	6510	1030	ug/kg	10300	ND	63.0	70-130			*
n-Decane	6610	1030	ug/kg	10300	ND	64.0	70-130			*
n-Dodecane	8020	1030	ug/kg	10300	ND	77.6	70-130			
Surrogate: PID: 2,5-Dibromotoluene	111		ug/kg	*100*		*111*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	112		ug/kg	*100*		*112*	*60-140*			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Matrix Spike Dup (BIH0384-MSD1)	**Source: 20H0130-02**		Prepared: 20-Aug-2020 Analyzed: 20-Aug-2020 20:05							
Methyl tert-butyl Ether	13200	1030	ug/kg	10300	ND	128	70-130	1.25	30	
Benzene	10700	1030	ug/kg	10300	ND	103	70-130	1.15	30	
Toluene	11500	1030	ug/kg	10300	ND	111	70-130	1.25	30	
Ethylbenzene	10900	1030	ug/kg	10300	ND	105	70-130	1.88	30	
m,p-Xylene	22800	2070	ug/kg	20700	ND	110	70-130	1.71	30	
o-Xylene	12100	1030	ug/kg	10300	723	110	70-130	0.85	30	
1,2,3-Trimethylbenzene	11300	1030	ug/kg	10300	ND	109	70-130	2.35	30	
Naphthalene	11200	1030	ug/kg	10300	ND	109	70-130	1.28	30	
1-Methylnaphthalene	11100	1030	ug/kg	10300	ND	108	70-130	1.11	30	
n-Pentane	8720	1030	ug/kg	10300	ND	84.4	70-130	4.86	30	
n-Hexane	7960	1030	ug/kg	10300	ND	77.0	70-130	11.50	30	
n-Octane	5850	1030	ug/kg	10300	ND	56.6	70-130	10.70	30	*
n-Decane	6920	1030	ug/kg	10300	ND	67.0	70-130	4.58	30	*
n-Dodecane	8720	1030	ug/kg	10300	ND	84.4	70-130	8.40	30	
Surrogate: PID: 2,5-Dibromotoluene	111		ug/kg	*100*		*111*	*60-140*			
Surrogate: FID: 2,5-Dibromotoluene	106		ug/kg	*100*		*106*	*60-140*			

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
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Certified Analyses included in this Report

Analyte	Certifications
WA EPH in Solid	
C8-C10 Aliphatics	WADOE,DoD-ELAP
C8-C10 Aliphatics	DoD-ELAP,NELAP
C8-C10 Aliphatics	WADOE,DoD-ELAP,NELAP
C8-C10 Aliphatics	WADOE,DoD-ELAP,NELAP
C10-C12 Aliphatics	WADOE,DoD-ELAP,NELAP
C10-C12 Aliphatics	WADOE,DoD-ELAP,NELAP
C10-C12 Aliphatics	WADOE,DoD-ELAP
C10-C12 Aliphatics	DoD-ELAP,NELAP
C12-C16 Aliphatics	WADOE,DoD-ELAP,NELAP
C12-C16 Aliphatics	WADOE,DoD-ELAP
C12-C16 Aliphatics	DoD-ELAP,NELAP
C12-C16 Aliphatics	WADOE,DoD-ELAP,NELAP
C16-C21 Aliphatics	WADOE,DoD-ELAP,NELAP
C16-C21 Aliphatics	WADOE,DoD-ELAP
C16-C21 Aliphatics	DoD-ELAP,NELAP
C16-C21 Aliphatics	WADOE,DoD-ELAP,NELAP
C21-C34 Aliphatics	WADOE,DoD-ELAP,NELAP
C21-C34 Aliphatics	WADOE,DoD-ELAP,NELAP
C21-C34 Aliphatics	WADOE,DoD-ELAP
C21-C34 Aliphatics	DoD-ELAP,NELAP
C8-C10 Aromatics	DoD-ELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,NELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,NELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,NELAP
C10-C12 Aromatics	DoD-ELAP,NELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,NELAP
C10-C12 Aromatics	DoD-ELAP,NELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,WADOE
C12-C16 Aromatics	DoD-ELAP,NELAP,WADOE
C12-C16 Aromatics	DoD-ELAP,WADOE
C12-C16 Aromatics	DoD-ELAP,NELAP
C12-C16 Aromatics	DoD-ELAP,NELAP,WADOE
C16-C21 Aromatics	DoD-ELAP,NELAP,WADOE
C16-C21 Aromatics	DoD-ELAP,WADOE
C16-C21 Aromatics	DoD-ELAP,NELAP

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C16-C21 Aromatics	DoD-ELAP,NELAP,WADOE
C21-C34 Aromatics	DoD-ELAP,NELAP,WADOE
C21-C34 Aromatics	DoD-ELAP,WADOE
C21-C34 Aromatics	DoD-ELAP,NELAP
C21-C34 Aromatics	DoD-ELAP,NELAP,WADOE

WA VPH in Solid

C5-C6 Aliphatics	DoD-ELAP
C5-C6 Aliphatics	DoD-ELAP,WADOE
C5-C6 Aliphatics	DoD-ELAP,WADOE
C5-C6 Aliphatics	DoD-ELAP,WADOE
C6-C8 Aliphatics	DoD-ELAP,WADOE
C6-C8 Aliphatics	DoD-ELAP
C6-C8 Aliphatics	DoD-ELAP,WADOE
C6-C8 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aliphatics	DoD-ELAP
C8-C10 Aliphatics	DoD-ELAP,WADOE
C10-C12 Aliphatics	DoD-ELAP,WADOE
C10-C12 Aliphatics	DoD-ELAP
C10-C12 Aliphatics	DoD-ELAP,WADOE
C10-C12 Aliphatics	DoD-ELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,WADOE
C8-C10 Aromatics	DoD-ELAP
C8-C10 Aromatics	DoD-ELAP,WADOE
C8-C10 Aromatics	DoD-ELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,WADOE
C10-C12 Aromatics	DoD-ELAP
C10-C12 Aromatics	DoD-ELAP,WADOE
C10-C12 Aromatics	DoD-ELAP,WADOE
C12-C13 Aromatics	DoD-ELAP,WADOE
C12-C13 Aromatics	DoD-ELAP,WADOE
C12-C13 Aromatics	DoD-ELAP
C12-C13 Aromatics	DoD-ELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP
Methyl tert-butyl Ether	DoD-ELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,WADOE
Methyl tert-butyl Ether	DoD-ELAP,WADOE
Benzene	DoD-ELAP,WADOE

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Benzene	DoD-ELAP,WADOE
Benzene	DoD-ELAP
Benzene	DoD-ELAP,WADOE
Toluene	DoD-ELAP,WADOE
Toluene	DoD-ELAP,WADOE
Toluene	DoD-ELAP
Toluene	DoD-ELAP,WADOE
Ethylbenzene	DoD-ELAP,WADOE
Ethylbenzene	DoD-ELAP
Ethylbenzene	DoD-ELAP,WADOE
Ethylbenzene	DoD-ELAP,WADOE
m,p-Xylene	DoD-ELAP,WADOE
m,p-Xylene	DoD-ELAP
m,p-Xylene	DoD-ELAP,WADOE
m,p-Xylene	DoD-ELAP,WADOE
o-Xylene	DoD-ELAP,WADOE
o-Xylene	DoD-ELAP
o-Xylene	DoD-ELAP,WADOE
o-Xylene	DoD-ELAP,WADOE
1,2,3-Trimethylbenzene	DoD-ELAP,WADOE
1,2,3-Trimethylbenzene	DoD-ELAP,WADOE
1,2,3-Trimethylbenzene	DoD-ELAP,WADOE
1,2,3-Trimethylbenzene	DoD-ELAP
Naphthalene	DoD-ELAP,WADOE
Naphthalene	DoD-ELAP
Naphthalene	DoD-ELAP,WADOE
Naphthalene	DoD-ELAP,WADOE
1-Methylnaphthalene	DoD-ELAP,WADOE
1-Methylnaphthalene	DoD-ELAP,WADOE
1-Methylnaphthalene	DoD-ELAP
1-Methylnaphthalene	DoD-ELAP,WADOE
n-Pentane	DoD-ELAP
n-Pentane	DoD-ELAP
n-Pentane	DoD-ELAP
n-Pentane	DoD-ELAP
n-Hexane	DoD-ELAP
n-Hexane	DoD-ELAP
n-Hexane	DoD-ELAP
n-Hexane	DoD-ELAP

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

n-Octane	DoD-ELAP
n-Octane	DoD-ELAP
n-Octane	DoD-ELAP
n-Octane	DoD-ELAP
n-Decane	DoD-ELAP
n-Decane	DoD-ELAP
n-Decane	DoD-ELAP
n-Decane	DoD-ELAP
n-Dodecane	DoD-ELAP
n-Dodecane	DoD-ELAP
n-Dodecane	DoD-ELAP
n-Dodecane	DoD-ELAP
PID: 2,5-Dibromotoluene	WADOE
PID: 2,5-Dibromotoluene	WADOE
PID: 2,5-Dibromotoluene	
PID: 2,5-Dibromotoluene	WADOE

Code	Description	Number	Expires
ADEC	Alaska Dept of Environmental Conservation	17-015	01/31/2021
DoD-ELAP	DoD-Environmental Laboratory Accreditation Program	66169	01/01/2021

Eurofins Calscience, Inc.	Project: Former Exxonmobile 72864	
7440 Lincoln Way	Project Number: 570-35629	**Reported:**
Garden Grove CA, 92841	Project Manager: Cecile de Guia	27-Aug-2020 10:14

Notes and Definitions

*	Flagged value is not within established control limits.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
[2C]	Indicates this result was quantified on the second column on a dual column analysis.

eurofins

Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-35629 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 08/11/20

PAGE: 1 OF 1

LABORATORY CLIENT: Accounts Payable

ADDRESS: 7440 Lincoln Way

CITY: Garden Grove STATE: CA ZIP: 92841

TEL: 714-895-5494 E-MAIL: us26_ap@eurofinsus.com

CLIENT PROJECT NAME / NUMBER: XOM 72864

P.O. NO.:

PROJECT CONTACT: Wesley Willow (724) 612-0003

SAMPLER(S): (PRINT) William Rosso

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS • STANDARD

☐ COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	8270D, Moisture, NWTPH_EPH	8260D, NWTPH_Gx	NWTPH_VPH - CPH Reported with EPH	Moisture, NWTPH_EPH	8280D - (MOD) Benzene	8260D - BTEX
1	KLF - 9	11-Aug	732	S	7	2	5		X	X	X	X		X
2	KLF - 8	11-Aug	824	S	6	1	5			X			X	X
3	KLF - 7	11-Aug	917	S	6	1	5			X			X	X
4	KLF - 1 - 3	11-Aug	931	S	7	2	5		X	X	X	X		X
5	KLF - 1 - 6	11-Aug	942	S	7	2	5		X	X	X	X		X
4	KLF-1-3 MS/MSD	11-Aug	9:31	S	7	2	5		X	X	X	X		X

Therm. ID: IR6 Cor: 2.3 Unc: 2.3
Cooler Dsc: LB FedEx: P.O.
Packing: Bub UPS:
Cust. Seal: Yes No Lab Courr:
Blue Ice Wet, Dry, None Other:

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		08-11-20	
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
		08-12-20	0940
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

06/02/14 Revision

Login Sample Receipt Checklist

Client: Kleinfelder Inc

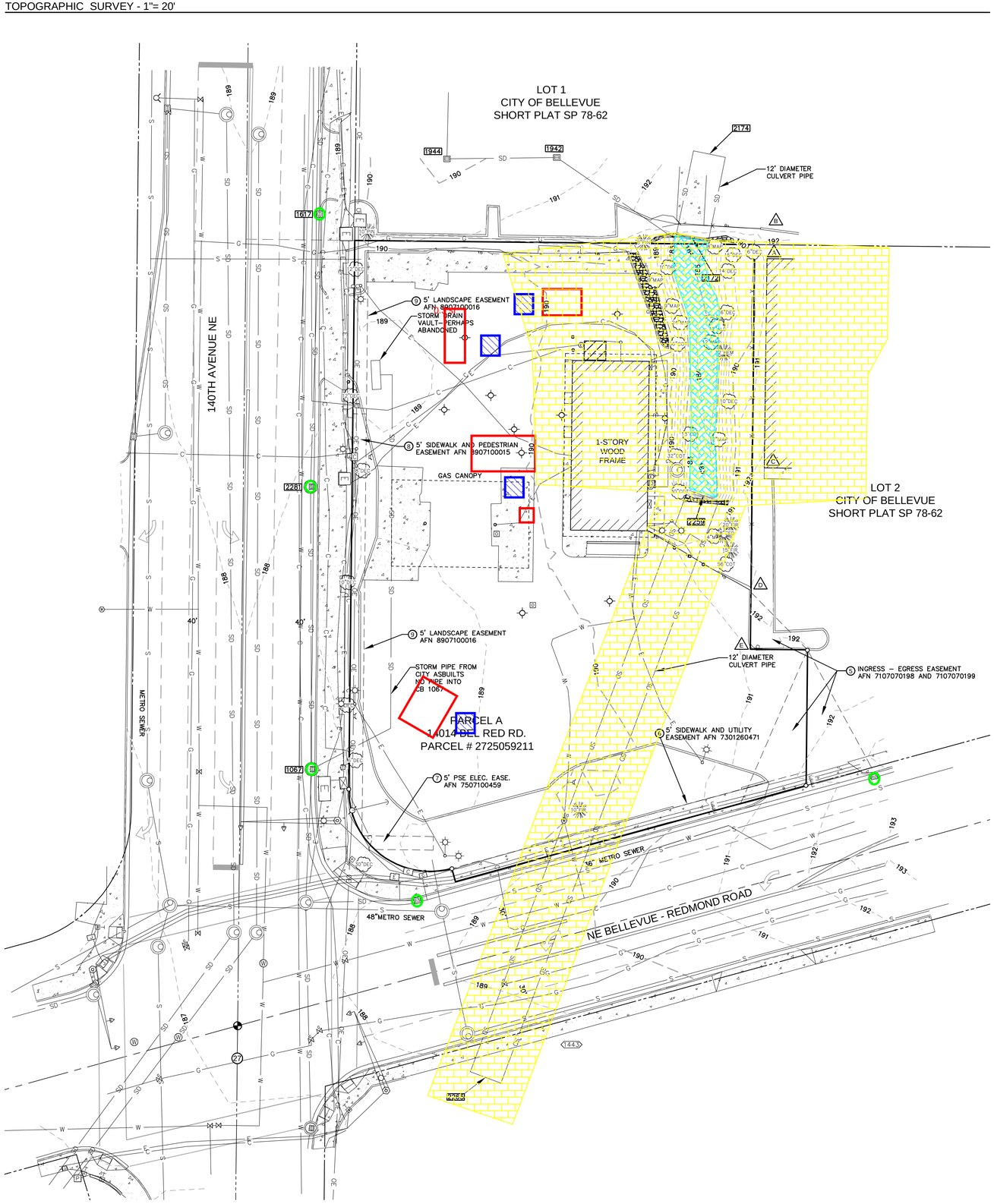
Job Number: 570-35629-2

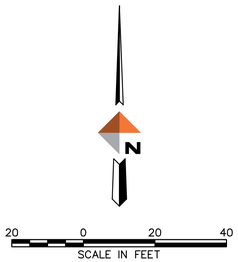
Login Number: 35629
List Number: 1
Creator: Cruise, Noel

List Source: Eurofins Calscience

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

TOPOGRAPHIC SURVEY - 1"= 20'





IMPROVEMENTS NEAR PROPERTY LINES

- (A) BLD. CORNER IS 4.5' EAST OF PROPERTY LINE
- (B) 6' CYCLONE FENCE IS ON PROPERTY LINE
- (C) BLD. CORNER IS 4.4' EAST OF PROPERTY LINE
- (D) 6' CYCLONE IS 0.2' E/ OF PROPERTY LINE
- (E) CURB IS ON PROPERTY LINE

ESC Prepared by Wesley Willow 724-612-0003
ESC Key
Full Site
BMP C153 - Material Delivery, Storage and Containment

- Proposed Excavation Locations
  BMP C152 - Saw-cutting and Surfacing Pollution Prevention
- BMP C123 - Plastic Covering of Stockpiles
- BMP C1220 - Storm Drain Inlet Protection
- Location of Surface Water
- Location of Critical Area Buffer

LEGEND

- SUBJECT PROPERTY BOUNDARY
- PROPERTY LINE (ADJACENT)
- CENTERLINE
- EASEMENT LINE
- RIGHT-OF-WAY LINE
- FENCE
- HAND RAIL
- GUARD RAIL
- EDGE OF PAVEMENT
- CURB AND GUTTER
- BUILDING AND OVERHANG
- CONCRETE SURFACE
- GRAVEL SURFACE
- KEYSTONE WALL
- CONCRETE WALL
- SD — STORM DRAIN LINE
- G — NATURAL GAS LINE
- OE — POWER LINES OVERHEAD
- E — POWER LINES UNDERGROUND
- S — SEWER LINE
- T — TELEPHONE LINE
- C — COMMUNICATIONS LINE
- W — WATER LINE
- 188 — MINOR CONTOUR LINE
- 190 — INDEX CONTOUR LINE
- LUMINAIRE
- LIGHT POLE
- POWER POLE
- GUY ANCHOR
- ELECTRIC MANHOLE
- ELECTRIC VAULT
- ELECTRIC TRANSFORMER
- ELECTRIC METER
- ELECTRIC JUNCTION BOX
- ELECTRIC CABINET
- TRAFFIC SIGNAL HEAD
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECT
- IRRIGATION VALVE
- WATER MANHOLE
- WATER VAULT
- WATER BLOW OFF VALVE
- POST INDICATOR VALVE
- GAS VALVE
- GAS METER
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT
- COMMUNICATIONS PEDESTAL
- TELEPHONE PEDESTAL
- STORM DRAIN CATCH BASIN
- STORM DRAIN MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- 5461 — STORM STRUCTURE (SEE TABLE)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- BOLLARD
- SIGN
- 8"MAP — DECIDUOUS TREE
- 8"CED — CONIFEROUS TREE
- (2) — EASEMENT REFERENCE #

STORM DRAIN TABLE

SYMBOL	DESCRIPTION	SIZE	ELEV
1067	D MH	RIM	187.12
	IE N	18"CONC	182.20
	IE S	18"CONC	182.10
1617	D CB	RIM	188.32
	IE N	12"CONC	185.33
	IE S	18"CONC	185.33
1942	D CB	RIM	190.34
	IE E	8"PVC	184.91
	IE W	8"PVC	184.91
1944	D CB	RIM	189.72
	IE N	8"PVC	185.47
	IE E	8"PVC	185.40
2172	D CULVERT	12' DIAM TOP	190.52
2174	D CULVERT	12' DIAM TOP	189.62
2269	D CULVERT	12' DIAM TOP	188.64
2765	D CULVERT	12' DIAM TOP	188.06
2281	D MH	RIM	187.89
	IE N	18"CONC	183.94
	IE S	18"CONC	183.89

REV	DATE	DESCRIPTION	BY

REVISIONS

3-30-2021

DOWL
WWW.DOWL.COM
8410 154th Avenue NE, #120
Redmond, Washington 98052
425-869-2670

BOUNDARY AND TOPOGRAPHIC SURVEY
Erosion and Sediment Control Plan
14014 BELLEVUE - REDMOND ROAD
BELLEVUE, WASHINGTON

PROJECT 15142.01
DATE 03/30/2021

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SHEET
2 OF 2

DOWLHKM FILE No: S112-61B
J:\27\15142-01\65CAD\Existing\MC16-VB-BA-15142-01.dwg PLOT DATE 2021-3-30 15:38 SAVED DATE 2021-03-30 14:56 USER: price