Thermistor Installation Report DTG Yakima Limited Purpose Landfill

Prepared for DTG Recycle



December 2023



Thermistor Installation Report DTG Yakima Limited Purpose Landfill

Prepared for

DTG Recycle 41 Rocky Top Rd Yakima, WA 98908

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December 2023 | 553-8472-003

Citation

Parametrix. 2023. Thermistor Installation Report DTG Yakima Limited Purpose Landfill. Prepared for DTG Recycle by Parametrix, Seattle, Washington. December 2023.

Certification

The technical material and data contained in this document were prepared under the supervision and direction of the undersigned, whose seal, as a professional hydrogeologist licensed to practice as such, is affixed below.



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Acronyms and Abbreviations

APH	air-phase petroleum hydrocarbons
BTEX	benzene, toluene, ethylbenzene, and total xylenes
Cascade	Cascade Drilling
CDL	construction, demolition, and land-clearing debris
COCs	Contaminants of concern
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
CULs	cleanup levels
DTG	DTG Recycle
Ecology	Washington State Department of Ecology
F	Fahrenheit
FLIR	forward looking infrared
LEL	lower explosive limit
LFCI	Landfill Fire Control Inc.
LFG	landfill gas
LPL	Limited Purpose Landfill
MTCA	Model Toxics Control Act
PCS	petroleum-contaminated soil
PID	photoionization detector
ppm	parts per million
RI	Remedial Investigation
ТРН	total petroleum hydrocarbons
VOA	volatile organic analysis
VOCs	volatile organic compounds
WAC	Washington Administrative Code
YHD	Yakima Health District

1. Introduction

DTG Recycle (DTG) operates the DTG Yakima Limited Purpose Landfill (LPL) located at 41 Rocky Top Road in Yakima, Washington. Figure 1 shows the vicinity of the LPL. This report is intended to document the thermistor installations and partially address the requirements of the Agreed Order (No. DE 21624) executed in February 2023 (Ecology 2023) and follows the approved Work Plan (Parametrix 2023).

2. Background

The facility was originally permitted as an unlined construction, demolition, and land-clearing debris (CDL) landfill that began operation in 1997 as Anderson Rock and Demolition Pits under Chapter 173-304 Washington Administrative Code (WAC). The facility was reclassified as an LPL in 2007, with the southern expansion area permitted in 2015. The LPL accepted treated petroleum-contaminated soil (PCS) that was stockpiled on the northeast portion of the facility and managed until soil concentrations were below the Model Toxics Control Act (MTCA) Method A cleanup levels (CULs) for unrestricted land use criteria. Once soils in the stockpiles were below MTCA CULs, they could be used as daily cover in the LPL following approval from Yakima Health District (YHD).

In October 2019, DTG Recycle purchased the LPL and began operations. The facility stopped accepting new sources of PCS until additional permitting is in place; however, treated PCS previously accepted and staged in the PCS remediation area continued to be disposed in the LPL. Filling of the northwest slope and the remainder of Phase 1 continued through 2022.

In 2022, a new fill area to the south of the historical Phase 1 fill area began operation. Based on new assessments of the hydrogeologic conditions, the current fill area was determined to be a temporary fill area, and DTG began the process of permitting a lined Phase 2 development of the LPL further south. Waste from the current temporary fill area will be moved into the new lined Phase 2 portion of the LPL. Future cells will be similarly lined.

2.1 Odors / Initial Investigations

In 2020, YHD received odor complaints from LPL neighbors. Odors were confirmed by regulators in October 2021 and tracked to the northwest slope of Phase 1 where visual vapor plumes emanating from fissures within the LPL were observed.

In December 2021, DTG retained Freestone Environmental Services to collect air samples of landfill gas (LFG) venting from within fissures. Gas samples collected directly from fissures contained elevated concentrations of volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and total xylenes (BTEX). In January 2022, Freestone Environmental Services collected ambient air samples from the LPL property boundary, as well as samples directly above, five (5) feet downwind, and fifteen (15) feet downwind of the fissures. Ambient air samples collected above and immediately downwind of the LPL fissures (S-1, S-2, and S-3) contained benzene concentrations above the MTCA Method B and Method C cancer and non-cancer CULs for air. Ambient air samples collected and methanol at concentrations below MTCA Method B and C air CULs. These results are documented in the Soil Gas and Ambient Air Sampling Report (Freestone Environmental Services 2022). Temperatures of up to 149 degrees Fahrenheit (F) were identified inside the fissures.

In July 2022, additional subsurface gas and ambient air sampling was completed across the LPL, and the sampling identified one area on the northwest slope of the LPL (sample VP-1) where concentrations of petroleum hydrocarbons and associated VOCs similar to the December fissure sampling were identified. At that location, methane was measured up to 4.2% by volume, below the lower explosive limit (LEL). No methane was observed at the seven other vapor probes (VP-2, VP-3, VP-4, VP-5, VP-6, VP-7, and VP-8) across the LPL. The ambient air sampling identified one area on the northwest slope of the LPL (sample AMB-4) having benzene and naphthalene above MTCA Method B air CULs. The July sampling results are documented in the Yakima LPL- Landfill Gas Investigation (Parametrix 2022).

2.2 Agreed Order

The Washington State Department of Ecology (Ecology) listed the northwest slope of the LPL as a MTCA cleanup site (Site) based upon the two investigations showing ambient air concentrations directly above the LPL above MTCA CULs for air. DTG and Ecology negotiated an Agreed Order that was executed in February 2023.

The Agreed Order required DTG to:

- Complete a Limited Remedial Investigation (RI) and interim actions, if necessary, for the Site
- Notify Ecology of significant changes in conditions
- Provide Monthly progress reports
- Submit plans or other deliverables to Ecology for approval

The Limited RI included a scope of work which includes:

- Develop a Limited RI Work Plan
- Complete the Limited RI
- Implement Interim Actions (if required)
- Complete SEPA compliance (as needed in conjunction with Interim Actions)
- Participate in Public Meetings

2.3 Fire Investigation / Delineation

In March 2023, Parametrix completed a series of ten 2-inch diameter steel gas probes (GP-1 through GP-10) in the LPL. A deep-seated landfill fire was confirmed based upon soil temperatures in exceedance of 400 degrees F, physically burnt material recovered in soil cores, gas temperatures in excess of 400 degrees F, high concentrations of hydrogen gas, high concentrations of carbon monoxide, active fissures and vents, and surface settlement (Parametrix 2023a).

Following confirmation of the subsurface landfill fire, DTG retained Landfill Fire Control Inc. (LFCI) to delineate the extent of the fire and develop a plan to extinguish it. LFCI has assisted DTG in installation of additional gas probes (GP-11 through GP-31). DTG generally completes weekly monitoring of the gas probes with a Multi-RAE Lite 5-gas meter and with a Draeger X-AM 8000 gas analyzer and daily/weekly monitoring of ambient air with the Multi-RAE Lite. To date, no ambient emissions have been detected with the Multi-RAE Lite at the LPL facility boundary.

At the time of the thermistor installation temperatures in several gas probes remained in excess of 500 degrees F and carbon monoxide levels in some gas probes remained high.

Figure 2 displays the location of the gas probes from previous investigations at the LPL.

2.4 Fire Suppression

DTG is currently placing low permeability cover soils over the fire area generally following the *Health and Safety, Fire Control and Monitoring Plan* (LFCI 2023a), the *DTG Yakima Limited Purpose Landfill Fire soil Cover Grading Plan* (LFCI 2023b), and 2023 Fire Response Comments (DTG 2023a). The current plan is to smother the fire with additional soil cover by preventing oxygen from reaching the fire and allowing combustion. At the time of the investigation, cover soils were placed below the perimeter roadway and DTG was actively filling the canal to facilitate placement of cover further northeast.

2.5 Thermistor Installation Objectives

The objectives of this investigation were to:

- Evaluate soil and gas temperatures within the LPL to assess the current extent / depth of the fire, and provide for future monitoring,
- Collect representative soil samples to characterize the nature of the waste material and concentrations of chemical substances in wastes and underlying native soils, and evaluate whether chemicals of concern are leaching from the fire area,
- Install gas probes to allow future monitoring of gases within deeper zones of the LPL, and
- Satisfy a portion of the limited RI of the Site, as required by the Agreed Order.

Contaminants of concern (COCs) in soil include gasoline-, diesel-, and oil-range total petroleum hydrocarbons (TPH), VOCs including BTEX, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and metals.

3. Field Investigation

DTG retained Cascade Drilling (Cascade) as the licensed driller to install thermistors and gas probes at the LPL. Cascade utilized sonic drilling techniques to drill to approximately 40 feet below ground surface at three locations at the LPL (Figure 2). Two locations are on the lower road between gas probes GP-2/GP-3 (T-1) and GP-1/GP-2 (T-2) along the zone of elevated temperature. One location is on the upper bench near GP-7/GP-18 (T-3) where emissions and vents are prevalent. The drilling and construction took place over the course of four days from September 11 through September 14, 2023. Photographs of the drilling investigation are attached in Appendix B.

3.1 Drilling

Sonic drilling utilized a conductor casing and core barrel to advance the boreholes to depth. The core barrel recovered core samples every 5 feet. Conductor casing was utilized to seal the upper borehole during drilling. Core samples were then extracted into polyethylene bags. After reaching certain depths and temperatures, the polyethylene bags could no longer be utilized to collect samples; instead, samples were poured into a steel wheelbarrow for observation and collection after the core barrel had been cooled with water.

In typical sonic drilling, sample recovery is near 100%. At the LPL, recovery varied greatly. On occasion, samples were lost from the core barrel due to expansion of gases. This expansion may

have been due to the high temperatures and lack of moisture and was seen as a plume exiting the core barrel and conductor casing. During other incidents, the material encountered was described as "loose" by the driller and fell from the core barrel sampler.

A summary of observations at each borehole is below. Additionally, field logs and thermistor and gas probe installation logs are included in Appendix A.

3.1.1 Thermistor 1

Thermistor 1 (T-1) is located on the lower bench between gas probes GP-2 and GP-3 (Figure 2). Landfill material consisted of very fine silty sand with occasional gravel and crushed rock. No organics were encountered in the borehole. The driller noted an apparent change in formation at approximately 38 to 40 feet; however, the recovered cores were very similar to those above. Cascade drilled to 45 feet to confirm bedrock had been encountered. Upon observing the sample collected at 45 feet, basalt bedrock was confirmed.

Below is a summary of additional field observations:

- Minimal VOCs were measured in soils with the photoionization detector (PID) with readings up to 3 parts per million (ppm).
- No detections were found in ambient air during most of the drilling event, except for a brief detection of a gaseous odor and ambient PID readings of 0.1 ppm while drilling at 20 feet and 30 feet.
- Temperatures of soil cores were measured with DTG's forward looking infrared (FLIR) device. Temperatures ranged up to 170 degrees F down to 10 feet below ground and over 200 degrees F to the bottom of the waste. The maximum temperatures of approximately up to 270 degrees F were observed at 25 feet below ground. These temperature readings were made after cooling the cores with water.
- There was no indication of an active fire zone at the location.

3.1.2 Thermistor 2

Thermistor 2 (T-2) is located on the lower bench between gas probes GP-1 and GP-2 (Figure 2). Landfill soils recovered from T-2 were comprised of very fine silty sand with occasional gravel and crushed rock down to 15 feet. A small amount of organic material was observed near 15 feet below ground. Small pieces of plastic were observed at 25 feet below ground. At 35 feet, vegetation/organics and less gravel were encountered. At 40 feet, cobbles of weathered basalt were encountered, and unweathered bedrock followed. The transition from weathered to unweathered basalt was noted at 43 feet below ground surface.

Below is a summary of additional field observations:

- No detections of VOCs were measured with the PID.
- A brief ambient reading of 0.1 ppm was observed with the PID while drilling at 5 feet; however, no other detections were encountered in waste or in ambient air.
- No indications of active fire within the waste.
- Soil core temperatures were 112 to 140 degrees F down to 20 feet below ground and over 200 degrees F between 25 feet to the bottom of the waste with maximum temperatures at approximately 241 degrees F.

3.1.3 Thermistor 3

Thermistor 3 (T-3) is located on the upper bench between GP-7 and GP-18 (Figure 3). At T-3, the composition of the LPL was substantially different from the first two thermistors. There was an immediate transition at 2.5 feet below ground to composted waste and organics. LFG odor was observed emanating from the borehole and in ambient air surrounding the location. The composted waste decreased with depth and at 20 feet, concrete was encountered. From 20 feet below ground to the bottom, the waste was comprised of sand, concrete, and varying amounts of inert waste and organics. Some visible smoke emissions were observed at samples from 35 and 40 feet below ground even though the soil temperatures measured were below 200 degrees F.

Below is a summary of additional field observations:

- PID readings ranged from 0.2 to 7.0 ppm in typical waste.
- When measured in points with visible smoke emissions, PID readings ranged from 60 to 93 ppm.
- Ambient air was measured at 1 ppm with the PID during drilling.
- Maximum temperatures observed from cores were around 200 degrees F.

3.2 Soil Sampling

Sonic drilling techniques utilize an approximate 5- to -10-foot core barrel that typically recovers relatively undisturbed samples. The core is traditionally extracted into polyethylene bags for soil observations and sampling. Due to the nature of the subsurface fire, the core sampler was evaluated for temperature by the drilling staff with assistance from Parametrix using the FLIR thermal imaging camera and the thermocouple. If nominal, the core sampler was emptied into polyethylene bags for evaluation by the on-site geologist; however, at all locations excess temperatures were present at depth and the core samples were emptied into a steel wheelbarrow. Samples were selected based upon field screening for VOCs, odors, visual staining, and sheen. No samples were taken from any fire zones, as active fire zones were not encountered during drilling. Samples were collected in 40 mL volatile organic analysis (VOA) containers and 4-ounce glass jars.

Soil samples of waste were collected in approximately 5-foot intervals. Six waste samples were collected from T-1 (5, 10, 15, 20, 25, and 35), five waste samples were collected from T-2 (5, 15, 20, 25, and 35), and seven waste samples were collected from T-3 (5, 10, 15, 20, 30, 35, and 40) following the procedures identified in the work plan (Parametrix 2023b). Soil samples from native materials were collected from T-1 at 40 and 45 feet and T-2 at 40 feet. A duplicate sample was collected from T-2 at 40 feet. Samples were placed in a cooler with ice and kept at temperatures below 4 degrees Celsius until delivery to the laboratory on September 15.

Most of the samples were submitted for analysis of TPH and VOCs. Two samples from native materials below the waste were also submitted for analysis of cPAHs and metals. Samples were submitted on a standard 5- to 10-day turnaround time. Several samples were placed on hold at the laboratory and not analyzed including T1-10', T1-20', T2-20', and T3-15'.

3.3 Thermistor and Gas Probe Construction

Well construction was completed following collection of samples and achieving the desired drill depth. At T-1 and T-2, the borehole into native materials was backfilled with hydrated bentonite chips up to at least 2 feet above the contact with waste prior to construction of the wells.

At each location, a thermistor and gas probe were constructed in the borehole. The thermistors are comprised of 1-inch diameter black iron blank conduit with an end cap. The gas probes are comprised of 10 feet of 2-inch diameter 20-slot stainless steel screen and 3/4-inch diameter black iron blank riser. Silica sand pack was placed from the bottom of the screen interval up to approximately 20 feet above the top of the screened interval (10 feet below ground at that time). Bentonite chips were placed above the sand pack up to about 1 foot below ground. A temporary above ground monument was placed into fill materials. Following placement of additional cover material, DTG extended each of the thermistors and gas probes approximately 10 feet. The well logs in Appendix A display the construction prior to the extension by DTG.

4. Soil Analysis

Tables 1, 2, and 3 summarize the results of the laboratory analyses. Copies of the laboratory reports are attached in Appendix C.

At T-1 and T-2, low levels of VOCs including BTEX and naphthalene were detected at concentrations below MTCA Method A CULs within the waste. There were no detections of gas-range, diesel-range, or oil-range TPH in samples from either borehole. Samples collected at 40 feet from below the waste were also analyzed for cPAHs and metals. Both were found below MTCA Method A CULs.

T1-40:

- No TPH, BTEX, naphthalene, cPAHs, or mercury detected
- Arsenic at 1.61 mg/kg
- Lead at 3.81 mg/kg

T2-40:

- No TPH, BTEX, naphthalene, cPAHs, arsenic, or mercury detected
- Lead at 4.78 mg/kg
- Cadmium at 1.3 mg/kg
- Chromium at 6.21 mg/kg
- Methylene chloride was found in the T2-40 duplicate at 0.33 mg/kg above the MTCA Method B CUL for protectiveness of groundwater. However, it was not detected in the original sample. This result was flagged by the laboratory as likely due to laboratory contamination.

At T-3, petroleum hydrocarbons and associated VOCs were detected within the waste. Concentrations of diesel, toluene, ethylbenzene, and xylenes were found below applicable CULs. Additional VOCs were detected.

T3-samples

- Gasoline-range TPH was found up to 170 mg/kg, above the MTCA Method A CUL
- Diesel-range TPH was found up to 1,400 mg/kg, below the MTCA Method A CUL
- Oil-range TPH was found up to 3,900 mg/kg, above the MTCA Method A CUL
- Benzene was found up to 1.6 mg/kg, above the MTCA Method A CUL
- Toluene was found up to 1.6 mg/kg, below the MTCA Method A CUL

- Ethylbenzene was found up to 4.3 mg/kg, below the MTCA Method A CUL
- Xylenes were found up to 2.6 mg/kg, below MTCA Method A CULs
- Naphthalene was found up to 37 mg/kg, above the MTCA Method A CUL
- 1,2,4-trimethylbenzene was found up to 2.3 mg/kg above the MTCA Method B CUL for protectiveness of groundwater at T3-10. It was found below the CUL at deeper samples.
- 1,3,5-trimethylbenzene, chlorobenzene, isopropylbenzene, p-isopropyltoluene, secbutylbenzene, and styrene were detected at low concentrations below MTCA Method B CULs.

Based on the waste encountered, samples were also analyzed for pH by the laboratory. The results show pH ranging from 6.6 to 8.4 within the majority of the waste. Two locations showed higher pH including a pH of 9.4 at T1-25 and a pH of 11 at T2-25. Elevated pH can be an indication of both concrete and ash.

5. Thermistor and Gas Probe Monitoring

5.1 Gas Probe and Temperature Monitoring

Initial gas probe monitoring of the three thermistors (T-1, T-2, and T-3) was completed by DTG with the Multi-RAE Lite and Draeger X-AM 8000 during routine weekly monitoring. Copies of the field measurements are attached in Appendix D. Temperature monitoring was completed by placement and monitoring of multiple depth thermocouples approximately every 10 feet in each thermistor (10 feet, 20 feet, 30 feet, and 40 feet below grade).

Initial results after installation of the new thermistors and gas probes are included in Table 4. The results of the LFG and temperature monitoring show T-1 and T-2 are very different from T-3. Low concentrations of VOCs and very high temperatures were observed at T-1 and T-2, whereas very high concentrations of VOCs and moderate temperatures were observed at T-3. Concentrations of oxygen were found near atmospheric conditions at both T-1 and T-2 similar to recent gas probe readings. At T-3, oxygen was 0% and methane was reported at 4.7% by volume; carbon monoxide was also found above 500 parts per million and hydrogen sulfide over 100 ppm. Temperatures were highest in T-1 at the 20-foot depth and measured over 400 degrees F. Temperatures at T-2 were approximately 250 degrees F at the same depth. T-3 was approximately 190 degrees F at 40 feet, which is generally within 5 feet of the equivalent depth of the T-1 and T-2 thermistors show the heat zones more concentrated at the 20-foot thermocouples with lower temperatures at higher elevation and lower elevation thermocouples.

6. Discussion of Fire Delineation and Extent

The highest temperatures in T-1 and T-2 were observed at the 20-foot interval. T-3 located approximately 25 feet higher in elevation did not see similar temperatures with maximums just below 190 degrees F. These observations indicate the active fire area may be limited to a more combustible portion of the LPL occurring near elevation 1870. As noted in the boreholes, waste at T-1 and T-2 was predominantly inert materials (silt, sand, rock, concrete, etc.). At T-3, more wood waste and organics were observed.

The silt, sand, rock, and concrete within the lower bench, although not combustible, appears to be quite permeable. The inert nature of the material does not produce LFG to displace the oxygen present. Oxygen concentrations within the two thermistors are near atmospheric conditions. Similar measurements have been made within nearby gas probes on the lower bench.

Samples with visible smoke emissions were observed at the bottom of T-3 within the waste. It is unknown if this was due to friction related to the sampler as the thermocouple temperatures are below 190 degrees F at the equivalent elevation. It is unknown whether an active fire zone is present further at depth below T-3.

Elevated pH was measured at T-1 at 25 feet and T-2 at 25 feet. The elevated pH could be indications of both concrete and ash. As noted above, the highest temperatures measured at the thermocouples were near these elevations.

Vents and emissions were observed around T-3 and GP-7 and further up the slope during this evaluation. Numerous cracks and vents were observed above GP-7 and temperatures within the cracks were measured above 100 degrees F with the FLIR. Odors were strongest above GP-7 which is approximately 20 to 30 feet further west than the previous LFG investigation. The prior LFG investigation found that the cracks and odors were strongest on the upper bench adjacent to GP-7. This migration of the emission zone further west may be indicative of slow subsurface fire movement within the waste or responses to placement of additional cover material.

7. MTCA Site Delineation

The soil sampling completed for this investigation shows the primary contaminants present in waste at the LPL are similar in nature to those identified in previous air sampling and are fuel related compounds of TPH, BTEX, and naphthalene. Concentrations of gasoline-range TPH, oil-range TPH, benzene, and naphthalene were found above MTCA Method A CULs. All other COCs were either non-detect or found at concentrations below applicable CULs. The contaminants found above MTCA CULs are the same ones found in prior LFG evaluations showing air-phase petroleum hydrocarbons (APH), benzene, and naphthalene.

1,2,4-trimethylbenzene was found in the soil at T3-10 above the MTCA Method B soil CUL for protectiveness of groundwater. However, concentrations at lower elevations were lower than the CUL indicating groundwater is not likely at risk from the chemical at that location.

Samples of native soil collected below the waste at T-1 and T-2 show no impacts from TPH, VOCs, cPAHs, or metals above MTCA Method A CULs (all results were non-detect except for few metals). Overall wastes observed at T-1 and T-2 were very dry potentially from the fire drying out the materials indicating current potential for migration to groundwater is unlikely. The T-3 waste samples had higher moisture content and a higher percentage of organics.

Based on this investigation and the air investigation, petroleum hydrocarbons, benzene, and naphthalene are the primary contaminants of concern. However, to-date none of these contaminants have been detected in groundwater in nearby well MW-4S (Parametrix 2023c). Additional groundwater investigation is planned to confirm no impacts to the Shallow Aquifer.

8. Closing

This report documents the installation of three deep thermistors/gas probes at the Site. The thermistors will be used for continuing evaluation of temperature and LFG in the fire area. The installation of the thermistors also allowed for characterization of waste within the LPL. The lower bench near T-1 and T-2 was primarily comprised of inert materials of sand, silt, gravel, rock, concrete. Further west at T-3, the LPL was comprised of much more composted waste including wood and organics mixed with sand, rock, and concrete. Although waste within the LPL contains concentrations of gasoline, oil, benzene, and naphthalene above MTCA Method A CULs, soil sampling at the base of the LPL below the lower bench showed no contamination. Further investigations of the LPL are currently being planned as part of the Agreed Order and as part of the fire suppression, delineation, and monitoring.

9. References

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Parametrix DATE: June 21, 2023 FILE: PS8472003-C01_QTY REPORT 052023_RECOVER

SCALE: 1"=750

Figure 1

Site Vicinity Map **DTG Yakima Limited Purpose Landfill**



0 150 1 INCH = 150 FT. Figure 2 Gas Probe and Ambient Air Monitoring Locations DTG Yakima Limited Purpose Landfill



Table 1 Sail Beculte for Detroloum H	wdrogorhops and Associated	Volatila Organia Co	mounde (mg/kg)
Table I. Soli Results for Felloleulli I	iyulucaluulis ahu Associaleu	i vulatile ulgarilu ut	mpounus (mg/kg)

Analyte / Sample ID	Gas-range TPH	Diesel-Range TPH	Oil-Range TPH	Total Diesel + Oil	Benzene	Toluene	Ethylbenzene	m,p xylenes	o xylenes	Total Xylenes	Naphthalene
T1-5	<5	<50	<250	<150	0.0043	0.0021	0.0065	0.0030	0.0015	0.0045	0.33
T1-10											
T1-15	<5	<50	<250	<150	0.016	0.0020	<0.0010	0.0034	0.0011	0.0045	<0.01
T1-20											
T1-25	<5	<50	<250	<150	0.013	0.0016	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T1-35	<5	<50	<250	<150	<0.0010	<0.0010	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T1-40	<5	<50	<250	<150	<0.0010	<0.0010	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T1-45	<5	<50	<250	<150	0.0019	0.0015	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T2-5	<5	<50	<250	<150	<0.0010	0.0011	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T2-15	<5	<50	<250	<150	0.0019	0.0010	<0.0010	<0.002	<0.0010		<0.01
T2-20											
T2-25	<5	<50	<250	<150	0.0029	0.0014	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T2-35	<5	<50	<250	<150	0.0019	0.0019	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T2-40	<5	<50	<250	<150	0.0013 X	0.0013 x	<0.0010	<0.002	<0.0010	<0.0015	<0.01
T2-40 Dup	<5	<50	<250	<150	0.013 X	0.013 x	<0.0010	<0.002	<0.0010	<0.0015	< 0.01
T3-5	<5	<50	<250	<150	0.0011	0.002	0.0033	<0.002	0.0011	0.0021	<0.01
T3-10	170	1,300	3,200	4,500	1.6	1.60	4.3	1.4	1.2	2.6	37
T3-15											
T3-20	58	220	<250	345	0.002	0.0042	0.014	0.0057	0.0052	0.0109	0.57
T3-30	58	1,400	1,100	2,500	0.150	0.3	0.99	0.33	0.28	0.61	5.4
T3-35	74	370	1,600	1,970	0.071	0.17	0.70	0.24	0.25	0.49	5.3
T3-40	84	910	3,900	4,810	0.045	0.13	0.53	0.17	0.14	0.31	3.4
MTCA Method A											
Cleanup Level	30	2,000	2,000	2,000	0.03	7	6	9	9	9	5

Notes:

BOLD = Results above MTCA Cleanup Level

-- = Not Analyzed

x = Estimated concentration due to variability between sample and duplicate

	Table 2. Soil Results for	Additional Detected	Volatile Organic	Compounds	(mg/kg
--	---------------------------	---------------------	------------------	-----------	--------

Analyte / Sample	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Chlorobenzene	Isopropylbenzene	Methylene chloride	p-lsopropyltoluene	sec-Butylbenzene
T1-5	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T1-10	-		-				
T1-15	<0.05	<0.05	0.050	<0.05	<0.2	<0.05	<0.05
T1-20	-	-	-		-		
T1-25	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T1-35	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T1-40	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T1-45	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T2-5	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T2-15	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
T2-20	-	-	-	-	-	-	-
T2-25	<0.05	0.050	<0.05	<0.05	<0.2	<0.05	<0.05
T2-35	<0.05	0.050	<0.05	<0.05	<0.2	<0.05	<0.05
T2-40	<0.05	0.050	<0.05	<0.05	<0.2	<0.05	<0.05
T2-40 DUP	<0.05	0.050	<0.05	<0.05	0.33 x	<0.05	<0.05
T3-5	<0.05	0.050	<0.05	<0.05	<0.2	<0.05	<0.05
T3-10	2.3	1.1	0.13	4.10	<0.2	0.67	0.23
T3-15	-	-	-	-	-	-	-
ТЗ-20	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05
ТЗ-30	0.54	0.25	<0.05	1.00	<0.2	0.25	0.061
T3-35	0.61	0.24	<0.05	0.76	<0.2	0.29	0.06
T3-40	0.33	0.12	<0.05	0.54	<0.2	0.17	0.051
Direct Contact Cancer MTCA Direct Contact non	-	-	-		94	-	-
Method B cancer	800	800	1600	8000	480	-	8000
Cleanup Protective of	1 2	1 0	0.96	15	0.022		25
LCVCI groundwater	T.0	T.3	0.00	10	0.022	-	20

Notes:

BOLD = Results above MTCA Cleanup Level

-- = Not Analyzed

x = Estimated concentration likely due to laboratory contamination

Styrene
<0.05
<0.05
<0.05
<0.05
<0.05
<0.05
<0.05
<0.05
-
<0.05
<0.05
<0.05
<0.05
<0.05
0.23
-
<0.05
<0.05
<0.05
<0.05

-

16000

2.2

Analyte / Sample	Arsenic	Lead	Cadmium	Chromium	Mercury	сРАНѕ ^{тео}
T1-40	1.61	3.81	<1.0	<5.0	<2	<0.075
T2-40	<1	4.78	1.3	6.21	<2	<0.075
T2-40 DUP	<1	3.2	1.26	7.35	<1	<0.075
MTCA Method A Cleanup Level	20	250	2	19 (VI) / 2,000 (III)	2	0.1

Table 3. Soil Results for Metals and Carcinogenic Polycyclic Aromatic Hydrocarbons (mg/kg)

Notes:

BOLD = Results above MTCA Cleanup Level

-- = Not Analyzed

x = Estimated concentration likely due to laboratory contamination

TEQ = Toxicity Equivalency Factor Calculations

	Thermistor 1		Thermistor 2		Thermistor 3		
Parameter		9/28/23	10/5/23	9/28/23	10/5/23	9/28/23	10/5/23
MultiRAE	Unit						
LEL	%	2	0	0	0	99	>99
CO	ppm	0	41	0	20	>499	>499
VOCs	ppm	54	14	90	6	616	521
02	%	19.8	20.2	19.3	20.0	4.3	2
H2S	ppm	>99.9	6.5	39.5	2.4	>99.9	>99.9
Drager X-an	n 8000						
CH4	%		0		0		4.7
CO	ppm		45		15		9840
H2	%		0		0		3.34
02	%		20.4	-	20.2		0
H2S	ppm		0		0		16.4
Temperature	° F						
10 ft		243.3	238.1	211.4	213.5	163.0	161.4
20 ft		442.9	437.5	246.0	248.8	176.0	175.9
30 ft		239.2	236.6	180.4	178.0	188.0	187.6
40 ft						186.0	189.7

Table 4. Initial Thermistor Monitoring Results

Notes:

LEL	= Lower Explosive Limit
CO	= Carbon Monoxide
VOCs	= Volatile Organic Compounds
02	= Oxygen
H2S	= Hydrogen Sulfide
CH4	= Methane
H2	= Hydrogen
ft	= feet
Ppm	= parts per million

F = Farenheit

Appendix A

Thermistor Drilling and Construction Logs, Field Logs

Parametrix Let's create tomorrow, together	Figure: A1				
Well/Location ID: T-1 Project Name: DTG Yakima LPL - Fire Investigation Project Number: 553-8472-003 Date(s) Drilled: 9/11-9/12 / 2023	Site Address: 41 Rocky Top Rd Yakima, WA GPS Coordinates:				
Drilling Company: Cascade Drilling	Rig Type: Terrasonic 150				
phic Log			GP Therm. Construction Log Labcock Valve		
	Photo Log	Samples	0 Kat		
- O - O- - O - O - O- - O - O - O- - O - O - O - O - O - O - O - O - O - O		T1-5	Dirt _5 Bentonite seal		
-0 - 0- -0 - 0- 10 -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0- -0 - 0-		T1-15	10 3/4-inch diam black iron riser 15		
20 -o - O- 0 0 0 0 and construction and sand, basalt chunks, and construction and construction and constructio		T1-25	20 1-inch diam blank black iron 25 Reducer		
30 0 0 0 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 35 0 0 0		T1-35	12/20 silica sand pack 30 2-inch diam. stainless steel 0.020 slot screen 35		
0 0 0 degrees F 0 0 0					
40 _ 205 degrees F, PID 0.2 ppm		T1-40	_40		
45 190 degrees F, PID 0.0 ppm 45' Bottom of Borehole		T1-45	45		
50 Notes CD. Cas Draha Thomas Thermitter			50		
Notes: GP - Gas Probe, Therm Thermistor					

Parametrix let's create tomorrow, together		Figure: A2				
Well/Location ID: T-2 Project Name: DTG Yakima LPL - Fire Investigation Project Number: 553-8472-003 Date(s) Drilled: 9/12 -9/13 / 2023	Site Address: 41 Rocky Top Rd Yakima, WA GPS Coordinates:					
Drilling Company: Cascade Drilling	Rig Type: Terrasonic 150		CD Thorm			
	Photo Log	Samples	Construction Log			
- O - o- Tan, very fine silt and sand with occasional large		Samples				
-0 - 0- -0 -0 - -0 - 0- -0 - 0 - 0- -0 - 0 - 0- -0 - 0 - 0- -0 - 0 - 0 - 0- -0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0		T2-5	Dirt _5 Bentonite seal 10			
- 0- 0- -0 - 0		T2-15	3/4-inch diam black iron riser 15			
20 -o - O-		T2-20				
0 0 0 plastic, LPL waste, 215 degrees F, PID 0.0 ppm 0 0 0 0 25 0 0 0 0 0 0 0 0 0 0 0		T2-25	1-inch diam blank black iron _25 			
30 0 0 Lost sample, heat 0 0 0 0 0 0 0 0 0 0 0 0			30 12/20 silica sand			
35 0 0 Cess basalt, more waste and vegetation, warmer 240 0 0 0 degrees F, PID 0.0 ppm 0 0 0 0 0 0 0 0 0 0 0 0	7	T2-35	2-inch diam. stainless steel 0.020 slot screen			
40 0 0 0 Weathered basalt, bedrock, dry, 200 degrees F	Carl and	T2-40	40			
45		T2-45	45			
45' Bottom of Borehole						
			50			
Notes: GP - Gas Probe, Therm Thermistor						

Parametrix let's create tomorrow, together	I	Figure: A3				
Well/Location ID: T-3 Project Name: DTG Yakima LPL - Fire Investigation Project Number: 553-8472-003 Date(s) Drilled: 9/11-9/12 / 2023	Site Address: 41 Rocky Top Rd Yakima, WA GPS Coordinates:					
Drilling Company: Cascade Drilling	Rig Type: Terrasonic 150					
aphic Log			GP Therm. Construction Log			
0 0 Description	Photo Log	Samples				
 O - O- Tan, very fine silt and sand with occasional large gravel, fill, cover-material, dry, 120 degrees F O O O Dark gray, silty sand with black-gray composted O O O waste, wood, organics, plastics, odor, moist o O o 120 degrees F, PID 0.2 ppm 		T3-5	Concrete 5 Bentonite seal			
0 o 0 o 0 o 0 o 0 10 _ o 0 o 0 o 0 0 o		T3-10	I-inch diam blank black iron 10			
0 0 0 0 0 0 0 15 0 0 0 0 0 0 0 0 0 0 0		T3-15	3/4-inch diam black iron riser 15			
0 0 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 140 degrees F, PID 6.6 ppm		т3-20	_20			
25 0	P		_25 Reducer			
30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	B	T3-30	30 12/20 silica sand			
35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		T3-35	2-inch diam. stainless steel			
0 0 Waste is smoking, more organics and plastic, 190 40 0 0 degrees F, PID 93.1 ppm 40' Bottom of Borehole 40'		T3-40	0.020 slot screen			
45	- man		45			
50			50			
Notes: GP - Gas Probe, Therm Thermistor						

Project: DTE	1 LPL	Thum: sto	r Ins-	fall
--------------	-------	-----------	--------	------

Date: 9/11/23 Weather: 85F, slightly over cast

Mile Brady Personnel: Sally Nguyen, PMX Chris Baker, Cascade Duiling Willie Williams, Cascade Duiling

SAMPLE	TIME	TEMP 'F	PID ppm	SOIL DESCRIPTION NOTES
TI-S	1226	145	0.7	tan, very fine sand w/ occ. gravel + fill cover + s: 1+
TI-10	1233	169	0.1	" w/occ. large gravel
				~1 ft recovery
TI-15	1251	201, 218.2	3.0	tr N
T1-20	1312	221, 195	0.1	" " wil fine gravel ~264 recovery
TI-25	1347	270,224	1.0	tgas smell, amb: ent 0-1ppm, sample fell through liner, sample scooped off the ground, paint chips@ bottom
TI-35	42800 1423	219	0.1 (amb:cut)	+ v + waste + some grey s: It & very fine sand intermized * forgot to take p: ctore

9/11/23

SAMPLE	TIME	TEMP	PID	SOIL DESCRIPTION
TI-969 30	1416	02029 184	0.1 (amb:-cm)	* no more liver -> Sample poured into Steel wheelbourrow, gas pocket or expansion -> sample spilled over area. could not sample
TI-40	1512	2.05	0.2	 taulgrey taulgrey taulgrey taulgrey taulgrey tausst of sample lost due to explansion plumes. Driller noted potential picces of bed vocle encomteved. Capped drive around 1530, with resume drivering to 45' follow: up morning

Project: DTG LPL thermisters Instan

Date: 9/12/23 Weather: 807, Sommy

Personnel: Savy rgupen, Chris Baker, Willie Williams

	SAMPLE	TIME	TEMP F	PID ppm	SOIL DESCRIPTION
	TI-45	949	188	0.0	grey, veny fine s: utylashy sand + Chunks of basalt + basalt chops * lost sample - feul loose out of pipp. Driller described as veny loose & come material. Drill seemed to be working hand, suspected bedrock. Nature of this drilling grinds up material, so it's normal to not get a core-like Sampled. Driller noted same rock was encountered ~38'
-	t2-5	000000 1345	112.1	D.l (amb:ent)	light brown, very fine sand wl ds:1t Chunksof basalt—f:4
-	72-15	1401	# 3B.3	0.0	+ lost 10' sample Driller provide 5-15' sample
	T2-20	1428	137.3	0.0	4

SAMPLE	TIME	TEMP	PID	SOIL DESCRIPTION
T2-25	1436	216.4	0.0	+ more gravel, less bigchonks + little bit of waste (piece of plastic + paused after this sample to inspect growing crack locut in landfill
t2-30				*10 St
 (MDCCBS)	QCE	030 200		9/13/23
†2-35	945	241.2	۵۰۵	s: Ity tan, very Fine salled, priverized into asky texture, more cohesive — less gravel. waste - plastic t vegetation
T2-40	A 1030	199.2	0.0	lange pieces (1-2.5.m) of weathered basalt bedvock + some tan very five silty sand * DUP taken (T2.40m) Driver noted hard basalt encountered P43'
45 ff	1055	168-3	0.0	it transition from weathered to hard basalt 143'

9/13/23

SAMPLE	TIME	TEMP	PID	SOIL DESCRIPTION
T3-5	1520	121.9	0.2	0-2.5': tan, very five sahd wil swall gravel
				2.5-5': davk grey s: Ity Sand, more moist than above, occ growel, (plastic) burnt waste, black, & organic (possibly composted) materian
T3-10	1530	184.7	le- 8	More burnt waste & organies, though b:gger wood pieces. first.5' (5-5.5') has gravel. 9.5-10': less burnt-or composted, orange color
73-15	1530	172.3	5.0	less black organic material, no plastic

Date: 9/14/23

Weather:

amb: ent p10: 0.7-1.3ppm

	CAR OF T			DID	SOU DECONTRACO
	SAMPLE	TIME	ТЕМР	PID	SOIL DESCRIPTION
	+3-20	856	137.6	لو. له	Dark brown s: (ty soil, organics,
					+ concrete encountered (20',
					lost 25' sample
	+3-30	917	100.3	-4.0	grey, very five sand, waste,
		117	<i>U</i> =		organics, concrete
_					* switch out / repair cylinder @940
	T3-35	1100	196. Le	4.6	4
				50.4 Osmoking points	+ DUP & T3-35-
	73-40	1107	192.6	93.1	Smoking, " "
				Osnoke	more organics, plastic

Project:

Personnel:



Parametrix

Appendix B

Photographs
Job Name: DTG Thermistor Installation

Job Number/Phase (Task) Mo/Yr: 553-8472-003; September 2023



Cascade conducting sonic drilling and Parametrix field personnel observing soil samples.



Example of a sample being released into a steel wheelbarrow.



Example of sample expansion.



Monitoring heat levels with use of an infrared thermometer.



Installation of thermistor and gas probe at site T2.



Weather basalt encountered at site T2.



Drilling paused for repair. Example of respirator use due to gaseous odor at site T3.



Completed installation of thermistor and gas probe at site T3.

Appendix C

Lab Results

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

September 25, 2023

Mike Brady, Project Manager Parametrix 719 2nd Ave, Suite 200 Seattle, WA 98104

Dear Mr Brady:

Included are the results from the testing of material submitted on September 15, 2023 from the DTG Yakima LPL, F&BI 309214 project. There are 48 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Colo

Michael Erdahl Project Manager

Enclosures PMX0925R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 15, 2023 by Friedman & Bruya, Inc. from the Parametrix DTG Yakima LPL, F&BI 309214 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Parametrix</u>
309214 -01	T1-5
309214 -02	T1-10
309214 -03	T1-15
309214 -04	T1-20
309214 -05	T1-25
309214 -06	T1-35
309214 -07	T1-40
309214 -08	T1-45
309214 -09	T2-5
309214 -10	T2-15
309214 -11	T2-20
309214 -12	T2-25
309214 -13	T2-35
309214 -14	T2-40
309214 -15	T2-40a
309214 -16	T3-5
309214 -17	T3-10
309214 -18	T3-15
309214 -19	T3-20
309214 -20	T3-30
309214-21	T3-35
309214-22	T3-35a
309214-23	T3-40

The 8260D sample T2-40a showed the presence of methylene chloride, a common laboratory contaminant. The data were flagged accordingly.

The 8270E calibration verification failed the acceptance criteria for terphenyl-d14 surrogate. The data were flagged accordingly.

All other quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/19/23 Date Analyzed: 09/19/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
T1-5 309214-01	<5	119
T1-15 309214-03	<5	112
T1-25 309214-05	<5	107
T1-35 309214-06	<5	100
T1-40 309214-07	<5	117
T1-45 309214-08	<5	110
T2-5 309214-09	<5	105
T2-15 309214-10	<5	115
T2-25 309214-12	<5	107
T2-35 309214-13	<5	110
T2-40 309214-14	<5	117

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/19/23 Date Analyzed: 09/19/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (<u>% Recovery</u>) (Limit 50-150)
T2-40a 309214-15	<5	116
T3-5 309214-16	<5	114
T3-10 309214-17	170	108
T3-20 309214-19	58	98
T3-30 309214-20	58	100
T3-35 309214-21	74	106
T3-40 309214-23	84	105
Method Blank 03-2180 MB	<5	115

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/18/23 Date Analyzed: 09/18/23 and 09/19/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	Motor Oil Range (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
T1-5 309214-01	<50	<250	87
T1-15 309214-03	<50	<250	96
T1-25 309214-05	<50	<250	99
T1-35 309214-06	<50	<250	94
T1-40 309214-07	<50	<250	91
T1-45 309214-08	<50	<250	99
T2-5 309214-09	<50	<250	97
T2-15 309214-10	<50	<250	87
T2-25 309214-12	<50	<250	98
T2-35 309214-13	<50	<250	89
T2-40 309214-14	<50	<250	85

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/18/23 Date Analyzed: 09/18/23 and 09/19/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

<u>Sample ID</u> Laboratory ID	Diesel Range (C10-C25)	<u>Motor Oil Range</u> (C25-C36)	Surrogate <u>(% Recovery)</u> (Limit 50-150)
T2-40a 309214-15	<50	<250	86
T3-5 309214-16	<50	<250	88
T3-10 309214-17	1,300	3,200	106
T3-20 309214-19	220	<250	100
T3-30 309214-20	1,400	1,100	104
T3-35 309214-21	370	1,600	102
T3-40 309214-23	910	3,900	96
Method Blank ^{03-2264 MB}	<50	<250	75

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/20/23 Date Analyzed: 09/21/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH USING EPA METHOD 9045D

Sample ID Laboratory ID	<u>pH</u>
T1-5 309214-01	7.8
T1-15 309214-03	8.3
T1-25 309214-05	9.4
T1-35 309214-06	8.1
T1-40 309214-07	8.1
T1-45 309214-08	8.0
T2-5 309214-09	7.8
T2-15 309214-10	7.4
T2-25 309214-12	11.0 ve
T2-35 309214-13	8.4
T2-40 309214-14	8.3
T2-40a 309214-15	8.0
T3-5 309214-16	8.2

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214 Date Extracted: 09/20/23 Date Analyzed: 09/21/23

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH USING EPA METHOD 9045D

Sample ID Laboratory ID	<u>рН</u>
T3-10 309214-17	8.0
T3-20 309214-19	8.1
T3-30 309214-20	6.7
T3-35 309214-21	6.6
T3-40 309214-23	6.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T1-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-07
Date Analyzed:	09/19/23	Data File:	309214-07.131
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	1.61		
Cadmium	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T1-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-07 x2
Date Analyzed:	09/21/23	Data File:	309214-07 x2.111
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
	Concentration		
Analyte:	mg/kg (ppm)		
Lead	3.81		
Mercury	<2		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T1-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-07 x5
Date Analyzed:	09/20/23	Data File:	309214-07 x 5.052
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte	Concentration mg/kg (nnm)		
rinary to.	ing, ng (ppin)		
Chromium	<5		

<5

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T2-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-14
Date Analyzed:	09/19/23	Data File:	309214-14.132
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
	Concentration		
Analyte:	mg/kg (ppm)		
Arsenic	<1		
Cadmium	1.30		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T2-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-14 x2
Date Analyzed:	09/21/23	Data File:	309214-14 x2.112
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
	Concentration		
Analyte:	mg/kg (ppm)		
Lead	4.78		
Mercury	<2		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T2-40	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-14 x5
Date Analyzed:	09/20/23	Data File:	309214-14 x 5.054
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Chromium	6.21		

6.21

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T2-40a	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-15
Date Analyzed:	09/19/23	Data File:	309214-15.143
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		
Cadmium	1.26		
Lead	3.20		
Mercury	<1		

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	T2-40a	Client:	Parametrix
Date Received:	09/15/23	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	309214-15 x5
Date Analyzed:	09/20/23	Data File:	309214-15 x5.080
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Chromium	7.35		

7.35

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Parametrix
Date Received:	NA	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	I3-719 mb
Date Analyzed:	09/18/23	Data File:	I3-719 mb.144
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP
Analyte:	Concentration mg/kg (ppm)		
Arsenic	<1		
Cadmium	<1		
Chromium	<1		
Lead	<1		
Mercury	<1		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-5 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, F& 309214-01 1/0.5 092007.D GCMS13 MD	&BI 309214
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:	
1,2-Dichloroethane-	·d4	99	84	120	
Toluene-d8		93	73	128	
4-Bromofluorobenze	ene	94	57	146	
Commente		Concentration	Common		Concentration
Compounds:		mg/kg (ppm)	Compou	nus.	mg/kg (ppm)
Dichlorodifluoromet	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	0.0065
Acetone		<5	1,1,1,2-1	'etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.0030
Hexane		< 0.25	o-Xylene	•	0.0015
Methylene chloride		< 0.2	Styrene	11	<0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropy	lbenzene	<0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromoto	rm	<0.05
1,1-Dichloroethane		<0.002	n-Propyl	benzene	<0.05
2,2-Dichloropropane	е	< 0.05		enzene	<0.05
cis-1,2-Dichloroethe	ene	<0.002	1,3,5-11	methylbenzene	<0.05
Onloroiorm		< 0.05	1,1,2,2-1	etrachioroethane	<0.05
2-Dutanone (MEK)		<1	1, 2, 3 - 1 m		<0.05
1,2-Dichloroethalle	(EDC)	<0.002	2-Chloro	toluene	<0.05
1,1,1-Thenloropropon		<0.002	4-Cilloro	vlbonzono	<0.05
Carbon totrachlorid		<0.05	1.9.4 Tri	mothylhonzono	<0.05
Bonzono	le	<0.00 0.0043	1,2,4-111 soc-Buty	lhenzene	<0.05
Trichloroethene		<0.0045	n-Isonro	nvltaluene	<0.05
1 2-Dichloropropan	۵	<0.002	1 3-Dich	lorobenzene	<0.05
Bromodichlorometh	ane	<0.05	1,0 Dich	lorobenzene	<0.05
Dibromomethane	lane	<0.05	1,1 Dich	lorobenzene	<0.05
4-Methyl-2-pentano	me	<1	1, 2 Dien	omo-3-chloropropane	<0.5
cis-1.3-Dichloropror	oene	< 0.05	1.2.4-Tri	chlorobenzene	< 0.25
Toluene		0.0021	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	lene	0.33
1,1,2-Trichloroetha	ne	< 0.05	1.2.3-Tri	chlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-15 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-03 1/0.5 092008.D GCMS13 MD	&BI 309214
Surrogates		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	d4	94	84	120	
Toluene-d8	u i	101	73	128	
4-Bromofluorobenze	ene	96	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.0034
Hexane		< 0.25	o-Xylene	9	0.0011
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromofo	rm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propyl	lbenzene	< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-'1	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	<0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorid	le	< 0.05	1,2,4-Tri	imethylbenzene	< 0.05
Benzene		0.016	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	lane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	<0.05
4-Methyl-2-pentanc	one	<1	1,2-Dibr	omo-3-chloropropane	<0.5
cis-1,3-Dichloroprop	pene	<0.05	1,2,4-111	icniorobenzene	< 0.25
Ioluene		0.0020	nexachl	oroputadiene	< 0.25
trans-1,3-Dichlorop	ropene	<0.05	Naphtha	alene	< 0.01
1,1,2-1richloroetha	ne	<0.05	1,2,3-111	chioropenzene	<0.25
2-nexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-25 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-05 1/0.5 092010.D GCMS13 MD	&BI 309214
Surrogates		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane-	d4	104	84	120	
Toluene-d8	ui	101	73	128	
4-Bromofluorobenze	ene	96	57	146	
		Concentration	~	_	Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylbei	nzene	< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Styrene	11	< 0.05
Methyl t-butyl ethe	r (MTBE)	0.0036	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromoto	orm	<0.05
1,1-Dichloroethane		<0.002	n-Propyl	lbenzene	<0.05
2,2-Dichloropropan	е	<0.05		enzene	<0.05
Cls-1,2-Dichloroethe	ene	<0.002	1,3,5-11	Imethylbenzene	<0.05
Onloroiorm		<0.05	1,1,2,2-1		< 0.05
2-Dutanone (MEK)		<1 0.002	1, 2, 3 - 1		<0.05
1,2-Dichloroethalle	(EDC)	<0.002	2-Chloro	toluene	<0.05
1,1,1-Thenloropropon		<0.002	4-Onloro	vlhonzono	<0.05
Carbon tetrachlorid		<0.05	1.9 ATri	imethylhenzene	<0.05
Renzene		0.013	sec-Buty	lhenzene	<0.05
Trichloroethene		<0.018	n-Isonro	nvltoluene	<0.05
1 2-Dichloropropan	<u>a</u>	<0.05	1 3-Dich	lorobenzene	<0.05
Bromodichlorometh	ane	<0.05	1,6 Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methvl-2-pentanc	one	<1	1.2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloroprop	oene	< 0.05	1,2,4-Tri	ichlorobenzene	< 0.25
Toluene		0.0016	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	alene	< 0.01
1,1,2-Trichloroethan	ne	< 0.05	1,2,3-Tri	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-35 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	ı) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-06 1/0.5 092011.D GCMS13 MD	&BI 309214
Surrogatos		% Bogovory:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	-d4	106	84	120	
Toluene-d8	ui	100	73	128	
4-Bromofluorobenz	ene	96	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1.3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	loroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-7	Tetrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene))	< 0.001
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	er (MTBE)	< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromofo	rm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propy	lbenzene	< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroeth	ene	< 0.002	1,3,5-Tri	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-1	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	ichloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachloric	le	< 0.05	1,2,4-Tri	imethylbenzene	< 0.05
Benzene		< 0.001	sec-Buty	lbenzene	< 0.05
Trichloroethene		<0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	nane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	<0.05
4-Methyl-2-pentan	one	<1	1,2-Dibr	omo-3-chloropropane	<0.5
cis-1,3-Dichloropro	pene	<0.05	1,2,4-Tri	icniorobenzene	< 0.25
10luene		<0.001	Hexach	oroputadiene	< 0.25
trans-1,3-Dichlorop	propene	<0.05	Naphtha	alene	< 0.01
1,1,2-1richloroetha	ne	<0.05	1,2,3-Tr	ichiorobenzene	<0.25
2-nexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-40 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-07 1/0.5 092012.D GCMS13 MD	&BI 309214
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:	
1,2-Dichloroethane	-d4	104	84	120	
Toluene-d8		100	73	128	
4-Bromofluorobenze	ene	97	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1.3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-1	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene	9	< 0.001
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropylbenzene		< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromofo	rm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propyl	lbenzene	< 0.05
2,2-Dichloropropan	е	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-T	'etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	ichloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorid	le	< 0.05	1,2,4-Tri	imethylbenzene	< 0.05
Benzene		< 0.001	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	ane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentanc	one	<1	1,2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloroprop	pene	< 0.05	1,2,4-Tri	chlorobenzene	< 0.25
Toluene		< 0.001	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	alene	< 0.01
1,1,2-Trichloroetha	ne	< 0.05	1,2,3-Tri	chlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T1-45 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-08 1/0.5 092013.D GCMS13 MD	&BI 309214
Surrogates		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	d4	100	84	120	
Toluene-d8		100	73	128	
4-Bromofluorobenze	ene	97	57	146	
Common day		Concentration	Company	- dec	Concentration
Compounds:		mg/kg (ppm)	Compou	nas:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene	9	< 0.001
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromofo	rm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propyl	lbenzene	< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-'1	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorid	le	< 0.05	1,2,4-Tri	imethylbenzene	< 0.05
Benzene		0.0019	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	lane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	<0.05
4-Methyl-2-pentanc	one	<1	1,2-Dibr	omo-3-chloropropane	<0.5
cis-1,3-Dichloroprop	pene	<0.05	1,2,4-111	icniorobenzene	< 0.25
Ioluene		0.0015	Hexachl	oroputadiene	< 0.25
trans-1,3-Dichlorop	ropene	<0.05	Naphtha	alene	< 0.01
1,1,2-1richloroetha	ne	<0.05	1,2,3-111	chioropenzene	<0.25
2-nexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-5 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-09 1/0.5 092014.D GCMS13 MD	&BI 309214
Sumoratos		% Rocovoru:	Lower Limit:	Upper Limit:	
1 2.Dichloroethane.	.d4	105	84	120	
Toluene-d8		100	73	120	
4-Bromofluorobenze	ene	99	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Styrene	11	< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromoto	rm	<0.05
1,1-Dichloroethane		< 0.002	n-Propyl	benzene	<0.05
2,2-Dichloropropan	е	< 0.05		enzene	<0.05
Cls-1,2-Dichloroethe	ene	< 0.002	1,3,5-11	methylbenzene	<0.05
Onloroiorm		<0.05	1,1,2,2-1	etrachioroethane	<0.05
2-Dutanone (MEK)	(EDC)	<1 0.002	1, 2, 3 - 1		<0.05
1,2-Dicilioroethalle	(EDC)	<0.002	2-Chloro	toluene	<0.05
1,1,1-Thenloropropon		<0.002	4-Cilloro	vlbonzono	<0.05
Carbon tetrachlorid		<0.05	1.9 ATri	methylhenzene	<0.05
Renzene		<0.00	sec-Buty	lhenzene	<0.05
Trichloroethene		<0.001	n-Isonro	nvltoluene	<0.05
1 2-Dichloropropan	۵	<0.002	1 3-Dich	lorobenzene	<0.05
Bromodichlorometh	ane	<0.05	1,0 Dich	lorobenzene	<0.05
Dibromomethane	lane	<0.05	1,1 Dich	lorobenzene	<0.05
4-Methyl-2-pentanc	me	<1	1, 2 Dien	omo-3-chloropropane	<0.5
cis-1.3-Dichloropror	oene	< 0.05	1.2.4-Tri	chlorobenzene	< 0.25
Toluene		0.0011	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	lene	< 0.01
1,1,2-Trichloroetha	ne	< 0.05	1.2.3-Tri	chlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-15 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-10 1/0.5 092015.D GCMS13 MD	&BI 309214
Surrogatos		% Rocovory	Lower Limit:	Upper Limit:	
1 2.Dichloroethane.	.d4	95	84	120	
Toluene-d8	uı	93	73	120	
4-Bromofluorobenze	ene	96	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylbei	nzene	< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Styrene	11	< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromoto	orm	< 0.05
1,1-Dichloroethane		<0.002	n-Propyl	lbenzene	< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	<0.002	1,3,5-11	imethylbenzene	< 0.05
Chloroform		< 0.05	1,1,2,2-1	etrachloroethane	<0.05
2-Butanone (MEK)		<1	1,2,3-1	icnioropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-1 richloropropon	ne	<0.002	4-Unioro	ullente	<0.05
1,1-Dicilioropropend		<0.05	19.4 Tm	yndenzene	<0.05
Bonzono	le	<0.03 0.0019	1,2,4-111 soc-Buty	lhonzono	<0.05
Trichloroethene		<0.0015	n-Isopro	nyltoluono	<0.05
1 2-Dichloropropan	0	<0.002	1 3-Dich	lorobenzene	<0.05
Bromodichlorometh	ane	<0.05	1,5-Dich	lorobenzene	<0.05
Dibromomethane	lane	<0.05	1,4-Dich	lorobenzene	<0.05
4-Methyl-2-pentanc	ne	<1	1,2 Dien 1 2-Dibr	omo-3-chloropropane	<0.5
cis-1.3-Dichloropror	bene	< 0.05	1,2 2101	ichlorobenzene	<0.25
Toluene		0.0010	Hexachl	orobutadiene	<0.25
trans-1.3-Dichlorop	ropene	< 0.05	Naphtha	alene	< 0.01
1,1,2-Trichloroetha	ne	< 0.05	1.2.3-Tri	ichlorobenzene	< 0.25
2-Hexanone		< 0.5	, ,		

ENVIRONMENTAL CHEMISTS

LowerUpperSurrogates:% Recovery:Limit:1,2-Dichloroethane-d48884120Toluene-d895731284-Bromofluorohenzene9757146	ion
1,2-Dichloroethane-d48884120Toluene-d895731284-Bromofluorohenzene9757146	ion
Toluene-d895731284-Bromofluorobenzene9757146	ion
4-Bromofluorohenzene 97 57 146	ion
	ion
ConcentrationConcentrationCompounds:mg/kg (ppm)Compounds:mg/kg (ppm)mg/kg (ppm)	m)
Dichlorodifluoromethane <0.5 1.3-Dichloropropane <0.05	
Chloromethane <0.5 Tetrachloroethene <0.002	2
Vinyl chloride <0.002 Dibromochloromethane <0.05	
Bromomethane <0.5 1,2-Dibromoethane (EDB) <0.005	ś
Chloroethane <0.1 Chlorobenzene <0.05	
Trichlorofluoromethane <0.5 Ethylbenzene <0.001	Ĺ
Acetone <5 1,1,1,2-Tetrachloroethane <0.05	
1,1-Dichloroethene <0.002 m,p-Xylene <0.002	2
Hexane <0.25 o-Xylene <0.001	L
Methylene chloride <0.2 Styrene <0.05	
Methyl t-butyl ether (MTBE) <0.002 Isopropylbenzene <0.05	
trans-1,2-Dichloroethene <0.002 Bromoform <0.05	
1,1-Dichloroethane <0.002 n-Propylbenzene <0.05	
2,2-Dichloropropane <0.05 Bromobenzene <0.05	
cis-1,2-Dichloroethene <0.002 1,3,5-Trimethylbenzene <0.05	
Chloroform <0.05 1,1,2,2-Tetrachloroethane <0.05	
2-Butanone (MEK) <1 1,2,3-Trichloropropane <0.05	
1,2-Dichloroethane (EDC) <0.002 2-Chlorotoluene <0.05	
1,1,1-Trichloroethane <0.002 4-Chlorotoluene <0.05	
1,1-Dichloropropene<0.05tert-Butylbenzene<0.05	
Carbon tetrachloride <0.05 1,2,4-Trimethylbenzene <0.05	
Benzene 0.0029 sec-Butylbenzene <0.05	
Trichloroethene<0.02p-Isopropyltoluene<0.051.9 Di ll<0.07	
1,2-Dichloropropane<0.051,3-Dichlorobenzene<0.05Description<0.07	
Bromodicnioromethane <0.05 1,4-Dichlorobenzene <0.05	
4 Mathyl 2 partanena <1 1 2 Dibrome 2 ablaranena <0.5	
4-Methyl-2-pentanone <1 1,2-Dibromo-5-chloropropane <0.5	
Toluono 0.0014 Hoveehlevobutadiono 0.025	
trans-1 3-Dichloropropage <0.05 Naphthalopo <0.01	
1 1 2 - Trichlorophane < 0.05 1 2 3 - Trichlorophane < 0.05 2	
2-Hexanone <0.5	

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-35 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-13 1/0.5 092017.D GCMS13 MD	&BI 309214
Surrogatos		% Rocovoru:	Lower Limit:	Upper Limit:	
1 2 Dichloroothano	-d4	90 necovery.	84	190	
Toluono d8		99 103	04 73	120	
4-Bromofluorobenz	ene	97	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dichloropropane		< 0.05
Chloromethane		< 0.5	Tetrachloroethene		< 0.002
Vinyl chloride		< 0.002	Dibromochloromethane		< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobenzene		< 0.05
Trichlorofluoromethane		< 0.5	Ethylbenzene		< 0.001
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xylene		< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ether (MTBE)		< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroethene		< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropane		< 0.05	Bromobenzene		< 0.05
cis-1,2-Dichloroeth	ene	< 0.002	1,3,5-Trimethylbenzene		< 0.05
Chloroform		< 0.05	1,1,2,2-Tetrachloroethane		< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	<0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	<0.05
1,1-Dichloropropen	e	< 0.05	tert-Butylbenzene		<0.05
Carbon tetrachlorie	ie	< 0.05	1,2,4-Trimethylbenzene		<0.05
Benzene Twichloweethere		< 0.001	sec-Butylbenzene		<0.05
Trichloroethene		< 0.002	p-isopropyitoituene		<0.05
1,2-Dichloropropane		< 0.05	1, 5-Dichlorobenzene		< 0.05
Dibuomomothomo	lane	< 0.05	1,4-Dich	lorobenzene	< 0.05
A Mothyl 2 ponton	200	<0.05	1,2-Dich 1,2 Dibn	ama 2 ablaranranana	<0.05
4-Methyl-2-pentano	nono	<1	1,2-D101	onio-o-cinoropropane	<0.5
Toluono	pene	<u>\0.05</u> 0.0010	1,4,4-111 Hoveehl	orobutadiona	~0.20 <0.25
trang_1 3 Dichloror	ronene	<0.0019	Nanhtha	alana	<0.20
1 1 2 Trichlorootho	nopene	<0.05	1 9 9.Twi	ichlorohonzono	<0.01
$2.H_{\text{over nono}}$	110	<0.00	1,2,0-11	UTITOT ODGITZGIIG	~0.20
		~U.U			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-40 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-14 1/0.5 092018.D GCMS13 MD	&BI 309214
Surrogatos		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	d4	101	84	120	
Toluene-d8		101	73	128	
4-Bromofluorobenze	ene	95	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	<0.5	1.3-Dich	loronronane	<0.05
Chloromethane	lilane	<0.5	Tetrachl	oroethene	<0.00
Vinvl chloride		<0.02	Dibromochloromethane		<0.002
Bromomethane		<0.5	1.2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobenzene		< 0.05
Trichlorofluoromet	nane	< 0.5	Ethylbenzene		< 0.001
Acetone		<5	1,1,1,2-Tetrachloroethane		< 0.05
1.1-Dichloroethene		< 0.002	m,p-Xylene		< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ether (MTBE)		< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroethene		< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropane		< 0.05	Bromobenzene		< 0.05
cis-1,2-Dichloroethene		< 0.002	1,3,5-Trimethylbenzene		< 0.05
Chloroform		< 0.05	1,1,2,2-Tetrachloroethane		< 0.05
2-Butanone (MEK)		<1	1,2,3-Trichloropropane		< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-Butylbenzene		< 0.05
Carbon tetrachloric	le	< 0.05	1,2,4-Trimethylbenzene		< 0.05
Benzene		< 0.001	sec-Butylbenzene		< 0.05
Trichloroethene		< 0.002	p-Isopropyltoluene		< 0.05
1,2-Dichloropropane		< 0.05	1,3-Dichlorobenzene		< 0.05
Bromodichloromethane		< 0.05	1,4-Dichlorobenzene		< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentanone		<1	1,2-Dibromo-3-chloropropane		< 0.5
cis-1,3-Dichloroproj	pene	< 0.05	1,2,4-Tri	ichlorobenzene	< 0.25
Toluene		0.0013	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	<0.05	Naphtha	alene	< 0.01
1,1,2-Trichloroetha	ne	<0.05	1,2,3-Tri	ichlorobenzene	< 0.25
2-Hexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-40a 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppn	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-15 1/0.5 092019.D GCMS13 MD	&BI 309214
Surrogates		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	-d4	106	84	120	
Toluene-d8		101	73	128	
4-Bromofluorobenz	ene	95	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1.3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachloroethene		< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobenzene		< 0.05
Trichlorofluoromethane		< 0.5	Ethylbenzene		< 0.001
Acetone		<5	1,1,1,2-7	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xylene		< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		0.33 lc	Styrene		< 0.05
Methyl t-butyl ether (MTBE)		< 0.002	Isopropy	lbenzene	< 0.05
trans-1,2-Dichloroethene		< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobenzene		< 0.05
cis-1,2-Dichloroethene		< 0.002	1,3,5-Trimethylbenzene		< 0.05
Chloroform		< 0.05	1,1,2,2-Tetrachloroethane		< 0.05
2-Butanone (MEK)		<1	1,2,3-Trichloropropane		< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chlorotoluene		< 0.05
1,1-Dichloropropen	e	< 0.05	tert-Butylbenzene		< 0.05
Carbon tetrachlorio	de	< 0.05	1,2,4-Trimethylbenzene		< 0.05
Benzene		< 0.001	sec-Butylbenzene		< 0.05
Trichloroethene		< 0.002	p-Isopropyltoluene		< 0.05
1,2-Dichloropropane		< 0.05	1,3-Dichlorobenzene		< 0.05
Bromodichloromethane		< 0.05	1,4-Dichlorobenzene		< 0.05
Dibromomethane		< 0.05	1,2-Dichlorobenzene		< 0.05
4-Methyl-2-pentan	one	<1	1,2-Dibromo-3-chloropropane		< 0.5
cis-1,3-Dichloropro	pene	< 0.05	1,2,4-Trichlorobenzene		< 0.25
Toluene		0.013	Hexachlorobutadiene		< 0.25
trans-1,3-Dichlorop	oropene	<0.05	Naphthalene		< 0.01
1,1,2-Trichloroetha	ne	<0.05	1,2,3-Tri	ichlorobenzene	<0.25
2-Hexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-5 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppn	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fa 309214-16 1/0.5 092020.D GCMS13 MD	&BI 309214
Surrogates:		% Recoverv:	Lower Limit:	Upper Limit:	
1.2-Dichloroethane-d4		101	84	120	
Toluene-d8		99	73	128	
4-Bromofluorobenz	ene	100	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
D'.1.1	41	-0 F	1 9 D'-l	1	
Chlanamathana	tnane	<0.5	1,3-Dich	loropropane	<0.00
Vinul oblamida		<0.0	Tetrachloroethene		< 0.002
Recommentation		<0.002	Dibromochloromethane		<0.05
Chloroothano		<0.5	1,2-Dibromoetnane (EDB)		<0.005
Trichlorofluoromot	hano	<0.1	Ethylbonzono		<0.00 0.0033
Acotono		<5	1 1 1 2-Tetrachloroethane		<0.0000
1 1-Dichloroethene		<0.002	m.p-Xylene		<0.00
Hexane		<0.25	o-Xvlene		0.0011
Methylene chloride		<0.2	Styrene		< 0.05
Methyl t-butyl ether (MTBE)		< 0.002	Isopropylbenzene		< 0.05
trans-1.2-Dichloroethene		< 0.002	Bromoform		< 0.05
1.1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropan	e	< 0.05	Bromobenzene		< 0.05
cis-1,2-Dichloroethene		< 0.002	1,3,5-Trimethylbenzene		< 0.05
Chloroform		< 0.05	1,1,2,2 Tetrachloroethane		< 0.05
2-Butanone (MEK)		<1	1,2,3-Trichloropropane		< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	2-Chlorotoluene	
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	4-Chlorotoluene	
1,1-Dichloropropen	e	< 0.05	tert-Butylbenzene		< 0.05
Carbon tetrachlorid	le	< 0.05	1,2,4-Trimethylbenzene		< 0.05
Benzene		0.0011	sec-Butylbenzene		< 0.05
Trichloroethene		< 0.002	p-Isopropyltoluene		< 0.05
1,2-Dichloropropane		< 0.05	1,3-Dichlorobenzene		< 0.05
Bromodichloromethane		< 0.05	1,4-Dichlorobenzene		< 0.05
Dibromomethane		< 0.05	1,2-Dichlorobenzene		< 0.05
4-Methyl-2-pentanone		<1	1,2-Dibromo-3-chloropropane		< 0.5
cis-1,3-Dichloroproj	pene	< 0.05	1,2,4-Trichlorobenzene		< 0.25
Toluene		0.0020	Hexachlorobutadiene		< 0.25
trans-1,3-Dichloropropene		<0.05	Naphthalene <		< 0.01
1,1,2-Trichloroethane		<0.05	1,2,3-Tri	ichlorobenzene	< 0.25
2-Hexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition LL

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-10 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppn	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, F& 309214-17 1/0.5 092021.D GCMS13 MD	&BI 309214
a			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane-d4		102	84 72	120	
4-Bromofluorobenze	ene	94	73 57	$\frac{128}{146}$	
		Concentration		-	Concentration
Compounds:		mg/kg (nnm)	Compou	nds	mg/kg (nnm)
De 11 de 11 m	-	ing/kg (ppin)	Compou		ing/kg (ppin)
Dichlorodifluorome	thane	<1	1,3-Dichloropropane		< 0.1
Chloromethane		<1	Tetrachloroethene		< 0.004
Vinyl chloride		< 0.004	Dibromo	chloromethane	< 0.1
Bromomethane		<1	1,2-Dibromoethane (EDB)		< 0.01
Chloroethane		< 0.2	Chlorobenzene		0.13
Trichlorofluorometh	nane	<1	Ethylbenzene		4.3
Acetone		<10	1,1,1,2-Tetrachloroethane		<0.1
1,1-Dichloroethene		<0.004	m,p-Xylene		1.4
Hexane		<0.5	o-Aylene		1.2
Methylene chloride		< 0.4	Styrene		0.23
Methyl t-butyl ether (MTBE)		< 0.004	Bromoform		4.1
trans-1,2-Dichloroethene		< 0.004	Bromotorm		<0.1
1,1-Dichloroethane	_	< 0.004	n-Propylbenzene		0.83
2,2-Dichloropropan	9	<0.1	Bromobenzene		< 0.1
Cls-1,2-Dichloroethe	ene	< 0.004	1,3,5-1 rimetnyibenzene		1.1
Chloroform		<0.1	1,1,2,2-1etrachioroethane		< 0.1
2-Dutanone (MEK)		<2	1, 2, 3 - 1		<0.1
1,2-Dichloroethalle		<0.004	2-Chloro	teluene	<0.1
1,1,1-Thenloropropon		<0.004	tort Butylhonzono		<0.1
Carbon tetrachlorid		<0.1	1.2.4.Trimothylbonzono		~0.1 2 3
Bonzono	e	-0.1	1,2,4-11 methymenzene		2.5
Trichloroothono		<0.004	n-Isopropyltoluene		0.23 0.67
1 2. Dichloronronane		<0.1	1 3-Dichlorobenzene		<0.01
Bromodichloromethane		<0.1	1 4-Dichlorobenzene		<0.1
Dibromomethane		<0.1	1.2-Dichlorobenzene		0.10
4-Methyl-2-pentanone		<2	1.2-Dibromo-3-chloropropane		<1
cis-1 3-Dichloropropene		<0.1	1.2.4-Trichlorobenzene		< 0.5
Toluene		1.6	Hexachl	orobutadiene	< 0.5
trans-1.3-Dichlorop	ropene	<0.1	Naphtha	alene	39 ve
1,1,2-Trichloroetha	ne	< 0.1	1.2.3-Tri	ichlorobenzene	< 0.5
2-Hexanone		<1	-,-,- 11		

Note: Reporting limits have been elevated due to high moisture content in the sample.
ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-10 09/15/23 09/20/23 09/21/23 Soil mg/kg (ppm) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, F&BI 309214 309214-17 092118.D GCMS13 MD
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	104	84	120
Toluene-d8		100	73	128
4-Bromofluorobenz	ene	95	57	146
		Concentration		
Compounds:		mg/kg (ppm)		
Naphthalene		37		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	T3-20		Client:	Parametrix	P DI 20021 4
Date Received:	09/10/23		Project:	DIG Yakima LPL, F	xBI 309214
Date Extracted:	09/20/23		Lab ID: Data Eilar	309214-19 1/0.3	
Date Analyzeu:	09/20/23 Soil		Data File:	092022.D CCMS12	
Matrix:	5011 mg/lrg (ppp) Dur Waight	Instrument:	GUMS13 MD	
Units:	mg/kg (ppn	i) Dry weight	Operator:	MD	
		_	Lower	Upper	
Surrogates:		% Recovery:	Limit:	Limit:	
1,2-Dichloroethane-	·d4	90	84	120	
Toluene-d8		90	73	128	
4-Bromofluorobenze	ene	97	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	0.014
Acetone		<5	1,1,1,2-T	'etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.0057
Hexane		< 0.25	o-Xylene)	0.0052
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropylbenzene		< 0.05
trans-1,2-Dichloroe	thene	< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropan	е	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	1,3,5-Trimethylbenzene	
Chloroform		< 0.05	1,1,2,2-T	'etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	toluene	< 0.05
1,1,1-Trichloroethan	ne	< 0.002	4-Chloro	toluene	< 0.05
1,1-Dichloropropene	Э	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorid	le	< 0.05	1,2,4-Tri	methylbenzene	< 0.05
Benzene		0.0020	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropan	е	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	ane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentanc	ne	<1	1,2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloroprop	oene	< 0.05	1,2,4-Tri	chlorobenzene	< 0.25
Toluene		0.0042	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	alene	0.57
1,1,2 Trichloroetha	ne	< 0.05	1,2,3-Tri	chlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-30 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-20 1/0.5 092023.D GCMS13 MD	&BI 309214
Surrogates		% Recovery:	Lower Limit:	Upper Limit:	
1 2-Dichloroethane	-d4	108	84	120	
Toluene-d8	u i	100	73	128	
4-Bromofluorobenz	ene	95	57	146	
Compounds:		Concentration mg/kg (ppm)	Compou	nds:	Concentration mg/kg (ppm)
Dichlorodifluorome	thane	<0.5	1.3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber	nzene	0.99
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.33
Hexane		< 0.25	o-Xylene)	0.28
Methylene chloride	•	< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	er (MTBE)	< 0.002	Isopropy	lbenzene	1.0
trans-1,2-Dichloroe	ethene	< 0.002	Bromofo	rm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		0.19
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroeth	ene	< 0.002	1,3,5-Tri	imethylbenzene	0.25
Chloroform		< 0.05	1,1,2,2-T	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	ichloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	<0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorie	de	<0.05	1,2,4-Tri	imethylbenzene	0.54
Benzene		0.15	sec-Buty	lbenzene	0.061
1 o D: 11		< 0.002	p-Isopro	pyltoluene	0.25
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	<0.05
Bromodichlorometh	nane	< 0.05	1,4-Dich	lorobenzene	<0.05
Dibromomethane		<0.05	1,2-Dich	lorobenzene	<0.05
4-Metnyl-2-pentan	one	<1 <0.05	1,2-D10r	omo-o-chioropropane	<0.0 <0.05
Toluono	pene	60.02	1,2,4-111 Howard	orobutadiona	<0.20
trong 1.2 Dichlerer	wonone	0.00	nexachi Naphtha	lono	~0.20 ∉ 4
1 1 2 Trichlorootho	nopene	<0.00 <0.05	1 9 9.Twi	ichlorobenzono	0.4 <0.95
2-Hexanone		<0.00	1,2,0-111	011101 0001120110	-0.20
		-0.0			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-35 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppn	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-21 1/0.5 092024.D GCMS13 MD	&BI 309214
~			Lower	Upper	
Surrogates:	14	% Recovery:	Limit:	Limit:	
1,2-Dichloroethane	-d4	98	84 79	120	
4-Bromofluorobenz	ene	97 96	73 57	$128 \\ 146$	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluoromet	hane	< 0.5	Ethylber	nzene	0.70
Acetone		<5	1,1,1,2-7	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.24
Hexane		< 0.25	o-Xylene))	0.25
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	er (MTBE)	< 0.002	Isopropy	lbenzene	0.76
trans-1,2-Dichloroe	thene	< 0.002	Bromofo	orm	< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		0.18
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	imethylbenzene	0.24
Chloroform		< 0.05	1,1,2,2-1	letrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	ichloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachloric	le	< 0.05	1,2,4-Tri	imethylbenzene	0.61
Benzene		0.071	sec-Buty	lbenzene	0.060
Trichloroethene		< 0.002	p-lsopro	pyltoluene	0.29
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	nane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentance	one	<1	1,2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloroproj	pene	< 0.05	1,2,4-Tri	ichlorobenzene	< 0.25
Toluene		0.17	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	oropene	< 0.05	Naphtha	alene	5.3
1,1,2-Trichloroetha	ne	< 0.05	1,2,3-Tri	ichlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T3-40 09/15/23 09/20/23 09/20/23 Soil mg/kg (ppm	n) Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, Fo 309214-23 1/0.5 092025.D GCMS13 MD	&BI 309214
Guine materia		0/ Decomorrow	Lower	Upper	
Surrogates:	24	% Recovery:		Limit:	
Toluono d8	·u4	104	04 72	120	
4-Bromofluorobenze	ene	94	57	146	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compou	nds:	mg/kg (ppm)
Dichlorodifluorome	thane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	ochloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	0.53
Acetone		<5	1,1,1,2-T	etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	0.17
Hexane		< 0.25	o-Xylene	9	0.14
Methylene chloride		< 0.2	Styrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropylbenzene		0.54
trans-1,2-Dichloroe	thene	< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propyl	n-Propylbenzene	
2,2-Dichloropropan	e	< 0.05	Bromobe	enzene	< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Tri	imethylbenzene	0.12
Chloroform		< 0.05	1,1,2,2-'1	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	otoluene	<0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	otoluene	< 0.05
1,1-Dichloropropen	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachloric	le	< 0.05	1,2,4-Tri	imethylbenzene	0.33
Benzene		0.045	sec-Buty	lbenzene	0.051
Trichloroethene		< 0.002	p-Isopro	pyltoluene	0.17
1,2-Dichloropropan	e	< 0.05	1,3-Dich	lorobenzene	<0.05
Bromodichlorometh	lane	< 0.05	1,4-Dich	lorobenzene	<0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	<0.05
4-Methyl-2-pentanc	one	<1	1,2-Dibr	omo-3-chloropropane	<0.5
CIS-1,3-Dichloroproj	pene	<0.05	1,2,4-111	chioropenzene	<0.25
Ioluene		0.13	Hexachl	oroputadiene	<0.25
trans-1,3-Dichlorop	ropene	<0.05	Naphtha	alene	3.4
1,1,2-1richloroetha	ne	<0.05	1,2,3-111	ichloropenzene	<0.25
2-nexanone		<0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	Method Bla	ank	Client:	Parametrix	
Date Received:	Not Applica	able	Project:	DTG Yakima LPL, F	&BI 309214
Date Extracted:	09/20/23		Lab ID:	03-2144 mb 1/0.5	
Date Analyzed:	09/20/23		Data File:	092009.D	
Matrix:	Soil		Instrument:	GCMS11	
Units:	mg/kg (ppn	n) Dry Weight	Operator:	LM	
	0 0 0 0	, . .	- T	тт	
C		0/ D	Lower	Upper	
Surrogates:	14	% Kecovery:	Limit:	Limit:	
Talaana do	a 4	102	19	128	
1 Dromofly or oborg		99 105	84	121	
4-bromonuorobenze	ene	105	84	116	
		Concentration			Concentration
Compounds:		mg/kg (ppm)	Compour	nds:	mg/kg (ppm)
Dichlorodifluoromet	hane	< 0.5	1,3-Dich	loropropane	< 0.05
Chloromethane		< 0.5	Tetrachl	oroethene	< 0.002
Vinyl chloride		< 0.002	Dibromo	chloromethane	< 0.05
Bromomethane		< 0.5	1,2-Dibr	omoethane (EDB)	< 0.005
Chloroethane		< 0.1	Chlorobe	enzene	< 0.05
Trichlorofluorometh	nane	< 0.5	Ethylber	nzene	< 0.001
Acetone		<5	1,1,1,2-T	'etrachloroethane	< 0.05
1,1-Dichloroethene		< 0.002	m,p-Xyle	ene	< 0.002
Hexane		< 0.25	o-Xylene		< 0.001
Methylene chloride		< 0.2	Stvrene		< 0.05
Methyl t-butyl ethe	r (MTBE)	< 0.002	Isopropylbenzene		< 0.05
trans-1.2-Dichloroe	thene	< 0.002	Bromoform		< 0.05
1,1-Dichloroethane		< 0.002	n-Propylbenzene		< 0.05
2,2-Dichloropropane	Э	< 0.05	Bromobenzene		< 0.05
cis-1,2-Dichloroethe	ene	< 0.002	1,3,5-Trimethylbenzene		< 0.05
Chloroform		< 0.05	1,1,2,2-T	etrachloroethane	< 0.05
2-Butanone (MEK)		<1	1,2,3-Tri	chloropropane	< 0.05
1,2-Dichloroethane	(EDC)	< 0.002	2-Chloro	toluene	< 0.05
1,1,1-Trichloroetha	ne	< 0.002	4-Chloro	toluene	< 0.05
1,1-Dichloropropene	e	< 0.05	tert-But	ylbenzene	< 0.05
Carbon tetrachlorid	e	< 0.05	1,2,4-Tri	methylbenzene	< 0.05
Benzene		< 0.001	sec-Buty	lbenzene	< 0.05
Trichloroethene		< 0.002	p-Isopro	pyltoluene	< 0.05
1,2-Dichloropropane	Э	< 0.05	1,3-Dich	lorobenzene	< 0.05
Bromodichlorometh	ane	< 0.05	1,4-Dich	lorobenzene	< 0.05
Dibromomethane		< 0.05	1,2-Dich	lorobenzene	< 0.05
4-Methyl-2-pentano	ne	<1	1,2-Dibr	omo-3-chloropropane	< 0.5
cis-1,3-Dichloroprop	oene	< 0.05	1,2,4-Tri	chlorobenzene	< 0.25
Toluene		< 0.001	Hexachl	orobutadiene	< 0.25
trans-1,3-Dichlorop	ropene	< 0.05	Naphtha	lene	< 0.01
1,1,2-Trichloroethan	ne	< 0.05	1,2,3-Tri	chlorobenzene	< 0.25
2-Hexanone		< 0.5			

ENVIRONMENTAL CHEMISTS

Client Sample ID:	T1-40		Client:	Parametrix
Date Received:	09/15/23		Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23		Lab ID:	309214-07 1/5
Date Analyzed:	09/18/23		Data File:	091816.D
Matrix:	Soil		Instrument:	GCMS12
Units:	mg/kg (ppm) l	Dry Weight	Operator:	VM
Surrogates: Terphenyl-d14	,	% Recovery: 79 ca	Lower Limit: 31	Upper Limit: 167
Compounds:	C	oncentration mg/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranther	ne	< 0.01		
Benzo(k)fluoranthe	ne	< 0.01		
Indeno(1,2,3-cd)pyre	ene	< 0.01		
Dibenz(a,h)anthrace	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-40 09/15/23 09/18/23 09/18/23 Soil mg/kg (ppm)	Dry Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, F&BI 309214 309214-14 1/5 091817.D GCMS12 VM
Onits.	iiig/kg (ppiii)	Dry weight	Operator.	V IVI
Surrogates: Terphenyl-d14		% Recovery: 98 ca	Lower Limit: 31	Upper Limit: 167
Compounds:		Concentration mg/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranther	ne	< 0.01		
Benzo(k)fluoranther	ne	< 0.01		
Indeno(1,2,3-cd)pyr	ene	< 0.01		
Dibenz(a,h)anthrace	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	T2-40a 09/15/23 09/18/23 09/18/23 Soil mg/kg (npm) D	rv Weight	Client: Project: Lab ID: Data File: Instrument: Operator:	Parametrix DTG Yakima LPL, F&BI 309214 309214-15 1/5 091818.D GCMS12 VM
011105.	inging (ppin) D	iy weight	operator.	, 111 T
Surrogates: Terphenyl-d14	9/	6 Recovery: 110 ca	Lower Limit: 31	Upper Limit: 167
Compounds:	Co m	oncentration ng/kg (ppm)		
Benz(a)anthracene		< 0.01		
Chrysene		< 0.01		
Benzo(a)pyrene		< 0.01		
Benzo(b)fluoranther	ne	< 0.01		
Benzo(k)fluoranthe	ne	< 0.01		
Indeno(1,2,3-cd)pyre	ene	< 0.01		
Dibenz(a,h)anthrace	ene	< 0.01		

ENVIRONMENTAL CHEMISTS

Client Sample ID:	Method Blank	Client:	Parametrix
Date Received:	Not Applicable	Project:	DTG Yakima LPL, F&BI 309214
Date Extracted:	09/18/23	Lab ID:	03-2257 mb 1/5
Date Analyzed:	09/18/23	Data File:	091807.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM
Surrogates: Terphenyl-d14	% Recovery: 74	Lower Limit: 31	Upper Limit: 167
Compounds:	Concentration mg/kg (ppm)		
Benz(a)anthracene	< 0.01		
Chrysene	< 0.01		
Benzo(a)pyrene	< 0.01		
Benzo(b)fluoranther	ne <0.01		
Benzo(k)fluoranthe	ne <0.01		
Indeno(1,2,3-cd)pyre	ene <0.01		
Dibenz(a,h)anthrace	ene <0.01		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 3	309214-01 (Duplic	eate)			
		Samp	ole Du	plicate	
	Reporting	Resu	lt R	lesult	RPD
Analyte	Units	(Wet V	Wt) (W	fet Wt)	(Limit 20)
Gasoline	mg/kg (ppm)	<5	<5 <5		nm
Laboratory Code: I	Laboratory Contro	ol Sample	9		
			Percent		
	Reporting	Spike	Recovery	Acceptance	
Analyte	Units	Level	LCS	Criteria	
Gasoline	mg/kg (ppm)	40	92	70-130	_

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code:	309214-01 (Matrix	x Spike)					
		G1	(Wet wt)	Percent	Percent		DDD
	Reporting	Spike	Sample	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	116	114	64-136	2
Laboratory Code:	Laboratory Contr	ol Sampl	e				
			Percent				
	Reporting	Spike	Recovery	Accept	ance		
Analyte	Units	Level	LCS	Crite	ria		
Diesel Extended	mg/kg (ppm)	5,000	110	78-1	21		

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR pH BY METHOD 9045D

Laboratory Code: 3	09214-01			
	Sample	Duplicate	Relative Percent	Acceptance
Analyte	Result	Result	Difference	Criteria
pH	7.8	7.8	0	0-20

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TOTAL METALS USING EPA METHOD 6020B

Laboratory Code: 309223-01 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Arsenic	mg/kg (ppm)	10	2.69	90 b	93 b	75 - 125	3 b
Cadmium	mg/kg (ppm)	10	<1	91	94	75 - 125	3
Chromium	mg/kg (ppm)	50	12.1	$79 \mathrm{b}$	90 b	75 - 125	13 b
Lead	mg/kg (ppm)	50	7.87	83	86	75 - 125	4
Mercury	mg/kg (ppm	5	<1	87	85	75 - 125	2

Laboratory Code: Laboratory Control Sample

Habbiatory cot	io. Haboratory com	cioi Sampio		
			Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Arsenic	mg/kg (ppm)	10	89	80-120
Cadmium	mg/kg (ppm)	10	99	80-120
Chromium	mg/kg (ppm)	50	105	80-120
Lead	mg/kg (ppm)	50	97	80-120
Mercury	mg/kg (ppm)	5	97	80-120

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 309214-04 (Matrix Spike)

· · · ·	1 /		Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	<0.5	63	62	10-142	2
Chloromethane	mg/kg (ppm)	2	< 0.5	102	100	10-126	2
Vinyl chloride	mg/kg (ppm)	2	< 0.05	96	91	10-138	5
Bromomethane	mg/kg (ppm)	2	< 0.5	95	101	10-163	6
Chloroethane	mg/kg (ppm)	2	<0.5	99	98	10-176	1
Asstance	mg/kg (ppm)	2 10	<0.5	93	93	10-176	0
1 1-Dichloroothono	mg/kg (ppm)	10	<0.05	96	94	10-160	9
Herane	mg/kg (ppm)	2	<0.05	105	105	10-137	0
Methylene chloride	mg/kg (ppm)	2	< 0.5	89	86	10-156	3
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	< 0.05	94	93	21 - 145	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	102	103	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	2	< 0.05	99	97	19-140	2
2,2-Dichloropropane	mg/kg (ppm)	2	< 0.05	104	100	10-158	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2	< 0.05	103	100	25-135	3
2 Putanana (MEK)	mg/kg (ppm)	2	< 0.05	100	99	21-145	1
1.2 Diablemethane (FDC)	mg/kg (ppm)	10	<0.05	00	115	19-147	3
1 1 1-Trichloroethane	mg/kg (ppm)	2	<0.05	105	105	10-156	0
1.1-Dichloropropene	mg/kg (ppm)	2	<0.05	100	102	17-140	2
Carbon tetrachloride	mg/kg (ppm)	2	< 0.05	97	98	9-164	1
Benzene	mg/kg (ppm)	2	< 0.03	99	99	29-129	0
Trichloroethene	mg/kg (ppm)	2	< 0.02	105	105	21-139	0
1,2-Dichloropropane	mg/kg (ppm)	2	< 0.05	104	104	30-135	0
Bromodichloromethane	mg/kg (ppm)	2	< 0.05	105	107	23-155	2
Dibromomethane	mg/kg (ppm)	2	<0.05	99	101	23-145	2
4-Methyl-2-pentanone	mg/kg (ppm)	10	<1	103	98 107	24-155	5
Toluene	mg/kg (ppm)	2	<0.05	107	107	35.130	1
trans-1.3-Dichloropropene	mg/kg (ppm)	2	<0.05	102	101	26-149	1
1,1,2-Trichloroethane	mg/kg (ppm)	2	< 0.05	99	99	10-205	0
2-Hexanone	mg/kg (ppm)	10	< 0.5	113	111	15-166	2
1,3-Dichloropropane	mg/kg (ppm)	2	< 0.05	104	100	31-137	4
Tetrachloroethene	mg/kg (ppm)	2	< 0.025	112	112	20-133	0
Dibromochloromethane	mg/kg (ppm)	2	< 0.05	108	109	28-150	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	<0.05	98	98	28-142	0
Ethylhonzono	mg/kg (ppm)	2	<0.05	104	101	32-129	3 9
1 1 1 2 Totrachloroothano	mg/kg (ppm)	2	<0.05	106	100	31-143	0
m.p-Xvlene	mg/kg (ppm)	4	<0.1	105	103	34-136	2
o-Xylene	mg/kg (ppm)	2	< 0.05	100	103	33-134	3
Styrene	mg/kg (ppm)	2	< 0.05	104	102	35-137	2
Isopropylbenzene	mg/kg (ppm)	2	< 0.05	102	101	31-142	1
Bromoform	mg/kg (ppm)	2	< 0.05	108	109	21-156	1
n-Propylbenzene	mg/kg (ppm)	2	< 0.05	102	97	23-146	5
1.2.5 Thim other langers	mg/kg (ppm)	2	<0.05	111	106	34-130	5
1,5,5-1 rimethylbenzene	mg/kg (ppm)	2	<0.05	104	95	28-140	3 9
1.2.3-Trichloropropane	mg/kg (ppm)	2	<0.05	94	88	25-144	5 7
2-Chlorotoluene	mg/kg (ppm)	2	< 0.05	101	94	31-134	7
4-Chlorotoluene	mg/kg (ppm)	2	< 0.05	103	98	31-136	5
tert-Butylbenzene	mg/kg (ppm)	2	< 0.05	106	98	30-137	8
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	< 0.05	103	96	10-182	7
sec-Butylbenzene	mg/kg (ppm)	2	< 0.05	102	96	23-145	6
p-isopropyltoluene	mg/kg (ppm)	2	<0.05	104	95	21-149	9
1, a-Dichlorobenzene	mg/kg (ppm)	2 9	<0.00 <0.05	107	99 07	30-131 90-190	8
1.2-Dichlorobenzene	mg/kg (ppiii)	2	<0.05	101	93	31-132	8
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	< 0.5	86	82	11-161	5
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	< 0.25	102	90	22-142	12
Hexachlorobutadiene	mg/kg (ppm)	2	< 0.25	102	94	10-142	8
Naphthalene	mg/kg (ppm)	2	< 0.05	92	83	14 - 157	10
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	< 0.25	102	92	20-144	10

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: Laboratory Control Sample

	_		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	64	10-146
Chloromethane	mg/kg (ppm)	2	98	27-133
Vinyl chloride	mg/kg (ppm)	2	90	22-139
Bromomethane	mg/kg (ppm)	2	90	10-201
Trichlorofluoromothono	mg/kg (ppm)	2 9	90	10-163
Acetone	mg/kg (ppiii)	10	99	52-141
1.1-Dichloroethene	mg/kg (ppm)	2	93	47-128
Hexane	mg/kg (ppm)	2	98	43-142
Methylene chloride	mg/kg (ppm)	2	86	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	90	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2	98	64-132
1,1-Dichloroethane	mg/kg (ppm)	2	96	64-135
2,2-Dichloropropane	mg/kg (ppm)	2	102	52-170
Chloroform	mg/kg (ppm)	2	96	61.139
2-Butanone (MEK)	mg/kg (ppm)	10	107	30-197
1.2-Dichloroethane (EDC)	mg/kg (ppm)	2	97	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	98	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	100	64-136
Carbon tetrachloride	mg/kg (ppm)	2	96	60-139
Benzene	mg/kg (ppm)	2	94	65-136
Trichloroethene	mg/kg (ppm)	2	98	63-139
1,2-Dichloropropane	mg/kg (ppm)	2	103	61-145
Dibromomethane	mg/kg (ppm)	2	102	07-120 69 199
4-Mothyl-2-pontanono	mg/kg (ppm)	10	99 94	45-145
cis-1.3-Dichloropropene	mg/kg (ppm)	2	104	65-143
Toluene	mg/kg (ppm)	2	95	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	95	65-131
1,1,2-Trichloroethane	mg/kg (ppm)	2	91	62-131
2-Hexanone	mg/kg (ppm)	10	101	33 - 152
1,3-Dichloropropane	mg/kg (ppm)	2	94	67-128
Tetrachloroethene	mg/kg (ppm)	2	102	68-128
1.2 Dibromochioromethane (FDR)	mg/kg (ppm)	2	104	00-121 66 190
Chlorobenzene	mg/kg (ppiii)	2	94	67-128
Ethylbenzene	mg/kg (ppm)	2	90	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	100	64-121
m,p-Xylene	mg/kg (ppm)	4	97	68-128
o-Xylene	mg/kg (ppm)	2	96	67-129
Styrene	mg/kg (ppm)	2	95	67-129
Isopropylbenzene	mg/kg (ppm)	2	93	68-128
Bromotorm	mg/kg (ppm)	2	105	56-132
n-Propylbenzene Bromohonzono	mg/kg (ppm)	2	99 119	68-129
1.3.5-Trimethylhenzene	mg/kg (ppm)	2	101	69-128
1.1.2.2-Tetrachloroethane	mg/kg (ppm)	2	99	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	92	61-137
2-Chlorotoluene	mg/kg (ppm)	2	100	69-128
4-Chlorotoluene	mg/kg (ppm)	2	99	67-127
tert-Butylbenzene	mg/kg (ppm)	2	100	69-129
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	99	69-128
sec-butylbenzene p Joopropyltoluopo	mg/kg (ppm)	2	98	69-130
1 3-Dichlorobenzene	mg/kg (ppiii)	4 9	90 104	69-130
1 4-Dichlorobenzene	mg/kg (ppiii)	2	104	68-126
1,2-Dichlorobenzene	mg/kg (ppm)	2	99	69-127
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	90	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	94	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	95	50-153
Naphthalene	mg/kg (ppm)	2	88	62-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	96	61-126

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/23 Date Received: 09/15/23 Project: DTG Yakima LPL, F&BI 309214

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270E

Laboratory Code: 309201-05 1/5 (Matrix Spike)

			Sample	Percent	Percent		
	Reporting	Spike	Result	Recovery	Recovery	Acceptance	RPD
Analyte	Únits Ö	Level	(Wet wt)	MS	MSD	Criteria	(Limit 20)
Benz(a)anthracene	mg/kg (ppm)	0.83	< 0.01	86	99	37-146	14
Chrysene	mg/kg (ppm)	0.83	< 0.01	86	99	36-144	14
Benzo(a)pyrene	mg/kg (ppm)	0.83	< 0.01	95	95	40-150	0
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	< 0.01	93	94	45-157	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	< 0.01	92	93	50 - 150	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	< 0.01	87	94	24 - 145	8
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	< 0.01	89	95	31-137	7

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benz(a)anthracene Chrysene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	0.83 0.83 0.83 0.83 0.83 0.83 0.83 0.83	$ 104 \\ 104 \\ 98 \\ 97 \\ 95 \\ 102 \\ 104 $	$\begin{array}{c} 64\text{-}116\\ 66\text{-}119\\ 62\text{-}116\\ 61\text{-}118\\ 65\text{-}119\\ 64\text{-}130\\ 67\text{-}131 \end{array}$

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht – The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

 ${\rm J}$ - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

 $k-\mbox{The calibration results}$ for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

 $\rm pc$ - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Appendix D

Gas Probe Field Sampling Sheets



Sample Location ID: (AP - T)

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG	/ Anderson LPL		Site Addr	ess: 41 Rocky Top	Road Yakima, WA				
Sampled by: Rigd.	berto Campo	r Jv	Date: 09/28/23						
Air Temperature:	54°E	· · · · · · · · · · · · · · · · · · ·	Weather:	SUNNY, Qa	rtly claudy				
Depth of Probe			Static Pressure:	0.04 Baron Press	netric 2799				
Screened Interval:			Probe Co	ndition:					
Purge Volume:			Purge Tin	ne: 5min					
	GEM5000	Readings	(Landtec 0	GEM only)					
Methane	Carbon Monoxide	Carbon	Dioxide	Oxygen	Hydrogen Sulfide				
(%)	(ppm)	(%)	(%)	(ppm)				
-									
-	MultiRA	E Readino	as ¹ (MultiR	AE only)					
% LEL	Carbon Monoxide	V	oC's	Oxygen	Hydrogen Sulfide				
L	(ppm)	(p	pm)	(%)					
2	Ô	A	19.8	OVEN 999 max					
	Drager X-a	m 8000 R	eadings² (L)rager only)					
Methane (%)	Carbon Monoxide	Нус	irogen	Oxygen	Hydrogen Sulfide (ppm)				
	(ppm)		(76)	())					
				D (5					
	Thermocouple	e Meter To	emperature	Readings (F)	27010E				
1047:24	3.3°F /2	0++:-	742.9	F/30+T.	JSTIL I				
Notes:									
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Diamatauna		$\overline{/}$							
Signature:		Ì							
			/						

¹Confirm carbon filter is attached. Sample %LEL, CO, O_2 and H_2S . Remove carbon filter. Sample VOC. ²Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.



Sample Location ID: $(\overline{AP} - T 2)$

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG	S / Anderson LPL		Site Address: 41 Rocky Top Road Yakima, WA								
Sampled by: R_{iq}	berto Camp	os Jv	Date: 09/28/23								
Air Temperature:	65°F		Weather	SUNNY, Par	the cloudy						
Depth of Probe			Static Pressure	-0.02 Baron Press	netric ure: 29.97						
Screened Interval:			Probe Co	ondition:							
Purge Volume:			Purge Ti	me: 4min							
	GEM5000	Readinas	(Landtec	GEM only)							
Methane (%)	Carbon Monoxide	Carbon	Dioxide	Oxygen	Hydrogen Sulfide						
(/0)	(ppm)	()	(6)	(%)	(ppm)						
-		·····									
-	MultiRA	E Readino	s ¹ (MultiR	AE only)							
% LEL	Carbon Monoxide	VC)C's	Oxygen	Hydrogen Sulfide						
$\overline{\mathcal{A}}$	(ppm)	1q) ·	5m) 入	(%)							
		9	<u> </u>	19.5	37,5						
	Drager X-ai	n 8000 Re	adinas² (I	Drager oniv)							
Methane (%)	Carbon Monoxide	Hydr	rogen	Oxygen	Hydrogen Sulfide						
	(ppm)	(5	%)	(%)	(ppm)						
_	Thermocounte	Meter Te	mnerature	e Readings (°F)							
10ft: 211.4	°F/20ft:	2460	F/30	277:180,4	°F						
Notes:											
				······································	······································						
Signature:	Signature:										
				-							
		Ľ	//								

¹Confirm carbon filter is attached. Sample %LEL, CO, O_2 and H_2S . Remove carbon filter. Sample VOC. ²Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.



Sample Location ID: <u>GP-T3</u>

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL			Site Address: 41 Rocky Top Road Yakima, WA				
sampled by: Rigoberto Campos Jr			Date: 09/28/23				
Air Temperature: 640 F			Weather: Claudy Sunny				
Depth of Probe			Static Barometric 29.99 Pressure: 0.0.5 Pressure: 29.99				
Screened Interval:			Probe Condition:				
Purge Volume:			Purge Time: 4 min				
	GEM5000	Readinas	(Landtec	GEM only)			
Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide		Oxygen (%)	Hydrogen Sulfide		
				(77)	(Ppm)		
MultiRAE Readings1 (MultiPAE aphy)							
% LEL	Carbon Monoxide (ppm)	VOC's		Oxygen (%)	Hydrogen Sulfide (ppm)		
- 99	over 199 max	616		4,3	OVER 99,9 max		
Drager X-am 8000 Readings ² (Drager only)							
Methane (%)	Carbon Monoxide (ppm)	onoxide Hydro m) (%		Oxygen (%)	Hydrogen Sulfide (ppm)		
	Thermocouple Meter Temperature Readings (°F)						
1044: 163°F /2047: 176°F / 3074: 188°F/4074: 1869F							
Notes:							
Signature:							

 1 Confirm carbon filter is attached. Sample %LEL, CO, O₂ and H₂S. Remove carbon filter. Sample VOC. 2 Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.



Sample Location ID: <u>GP-T1</u>

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL			Site Address: 41 Rocky Top Road Vakima MA				
Sampled by: Rigoberto Campos Ji			Date: 10/05/23				
Air Temperature: 600F			Weather: SUNNY				
Depth of Probe			Static Barometric 30.30				
Screened Interval:			Probe Condition:				
Purge Volume:			Purge Time: 7min				
	GEM5000	Readings	(Landtec	GEM onlv)			
Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide		Oxygen (%)	Hydrogen Sulfide (ppm)		
-	MultiRAF Readings1 (MultiPAE only)						
% LEL	Carbon Monoxide (ppm)	OV qq)	C's m)	Oxygen (%)	Hydrogen Sulfide (ppm)		
0	41	14		20.2	6.5		
	Drager X-ar	<i>n 8000 Re</i> i	adings² (L)rager oniv)			
Methane (%)	Carbon Monoxide (ppm)	Hydro (%	ogen 6)	Oxygen (%)	Hydrogen Sulfide (ppm)		
0	45	(Ċ	20.4	0		
Thermocouple Meter Temperature Readings (°F)							
10ft 238.10F / 20ft 737.5°F / 30ft 236.6°F							
Notes:							
				<i>y</i>			
Signature:							
$ \nu$			\mathcal{U}	ц» .			

 1 Confirm carbon filter is attached. Sample %LEL, CO, O₂ and H₂S. Remove carbon filter. Sample VOC. 2 Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.



Sample Location ID: <u>GP-T2</u>

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL			Site Address: 41 Rocky Top Road Yakima WA			
sampled by: Rigoberto Coumpos Ji			Date: 10/05/23			
Air Temperature: 60°F			Weather: $S(1/n)$ Y			
Depth of Probe			Static Barometric 30.30 Pressure: 0,01 Pressure: 30.30			
Screened Interval:			Probe Condition:			
Purge Volume:			Purge Time: 7 m (N			
	GEM5000	Readinas	(Landtec)	GEM only)		
Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)		Oxygen (%)	Hydrogen Sulfide (ppm)	
MultiRAF Readings1 (MultiRAF caby)						
% LEL	Carbon Monoxide (ppm)	OV aq)	C's m)	Oxygen (%)	Hydrogen Sulfide (ppm)	
0	20	6		20.0	2,4	
	Drager X-am 8000 Readings ² (Drager only)					
Methane (%)	Carbon Monoxide Hydr (ppm) (9		ogen 6)	Oxygen (%)	Hydrogen Sulfide (ppm)	
0	15	0		20.2	0	
Thermocouple Meter Temperature Readings (°F)						
1074 213.50F / 20Ft 248,8°F / 30Ft 178.0°F						
Notes:						
Signature:						

¹Confirm carbon filter is attached. Sample %LEL, CO, O₂ and H₂S. Remove carbon filter. Sample VOC. ²Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.



Sample Location ID: GP-T3							
Project Name: DTG / Anderson I PI							
sampled by: Rigoberto Coumoos Ji			Site Address: 41 Rocky Top Road Yakima, WA				
Air Temperature: 60°F			Weather: SUNNV				
Depth of Probe			Static Barometric 30.30 Pressure: 0.0 Pressure: 30.30				
Screened Interval:	Screened Interval:			Probe Condition:			
Purge Volume: Purge Time:				ime: 7m/n			
Methane (%)	GEM5000 Readings (Landtec GEW only) Carbon Monoxide Carbon Dioxide Oxygen Hydrog				Hydrogen Sulfide		
	(ppn)	(%	5)	(%)	(ppm)		
-	MultiRAL	E Reading	s ¹ (MultiR	PAF only)	<u> </u>		
% LEL	Carbon Monoxīde (ppm)	VOC's (ppm)		Oxygen (%)	Hydrogen Sulfide (ppm)		
Over 99 max	over 499 max	52		2.0	Over 99.9 max		
Methane (%)	Drager X-an Carbon Monoxide	n 8000 Rea Hvdro	e dings² (L gen	Drager only)	Hudroson Cultido		
4.7	(ppm) 7840	(% ママ) ? /	(%)	(ppm)		
10ft 161.4°F / 20ft 175.9°F / 30ft 1876 / 40ft 187.7°F							
Notes:							
Signature:							
			/				
		<u></u>	\mathcal{V}	<u></u>	, <u></u> , <u></u> , <u></u>		

 1 Confirm carbon filter is attached. Sample %LEL, CO, O₂ and H₂S. Remove carbon filter. Sample VOC. ²Confirm H2S scrubber is attached. Sample %CH₄, CO, H₂, and O₂. Remover scrubber. Sample H₂S.