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Technical Memorandum

DATE:	March 23, 2026
TO:	Ian Sutton, PE Director of Engineering DTG Recycling
FROM:	Sally Nguyen, GIT
SUBJECT:	Thermistor Drilling and Construction
CC:	Mike Brady, LG, LHG, Laura Lee
PROJECT NUMBER:	553-8472-010
PROJECT NAME:	Rocky Top Environmental Limited Purpose Landfill

This technical memorandum summarizes thermistor and gas probe drilling and construction completed at Rocky Top Environmental Limited Purpose Landfill (LPL) located in Yakima, Washington (Figure 1). Four boreholes with a nested design (T4, T5, T6, and T7, Figure 2), consisting of one thermistor pipe, a shallow gas probe, and a deep gas probe, were completed. Results of soil sampling conducted during the thermistor installation and sampling of ambient air and landfill gas are summarized below. Sample locations are shown on Figures 1 and 2.

Phase 1 of the LPL is a Model Toxics Control Act (MTCA; Chapter 173-340 Washington Administrative Code [WAC]) site following the confirmation of a subsurface landfill fire. The work described in this technical memorandum was conducted in accordance with the approved Limited Remedial Investigation (RI) Work Plan (Parametrix 2025a) and was intended to partially address the requirements of the Agreed Order (No. DE 21624) executed in February 2023.

Introduction

The objective of the additional thermistors and gas probes was to aid in the landfill fire investigation to further delineate the extent of the fire within Phase 1 of the LPL and to provide additional observation points for ongoing monitoring of fire and landfill gas conditions. The objective of the ambient air and landfill gas sampling was to evaluate current conditions above the subsurface fire zone, up wind, and downwind to confirm no risks to neighboring landowners and residences.

Thermistor Installation

Drilling and Construction

Parametrix personnel oversaw the drilling of four thermistors (T4, T5, T6, and T7) in July and August 2025. The thermistor locations are shown on Figure 2. One location (T-4) is on the lower road further south of the existing thermistors T-1 through T-3 and three locations (T-5, T-6, and T-7) are on the upper bench further east of existing thermistors and within deeper waste. Gregory Drilling was retained to drill and construct the nested probes using the rotary sonic methods. The nested probes were granted a well construction variance by Ecology (Attachment A). Cuttings were returned in approximately 10-foot (ft) intervals. The boreholes primarily advanced through waste and landfill cover material. Drilling ceased once competent bedrock was encountered below the waste.

Due to the potential risks of drilling into an active landfill fire, passive gas monitoring was ongoing during drilling activities using a photoionization detector (PID) to monitor for low levels of volatile organic compounds (VOCs) in the ambient air.

Each well nest was constructed with a thermistor and two gas probes. The thermistors are comprised of 2-inch diameter black iron blank conduit with an end cap. The gas probes are comprised of 10 feet of 1-1/4-inch diameter 20-slot stainless steel screen and black iron blank riser. Silica sand pack was placed in the annular space surrounding the screened intervals. Temperature resistant grout and bentonite were utilized to create a seal between the deep (D) and shallow (S) gas probe intervals and bentonite chips were placed above the top of the upper sand pack up to about 1 ft below ground. An above ground monument was placed into fill materials.

A void space was encountered when adding the temperature resistant grout while constructing thermistor T-4. The initial seal of grout was not present after allowing it to cure overnight. To compensate for the void space additional seal was added. After the curing process, a seal was established, but it was found to partially cover the shallow gas probe screen (T-4S).

Drilling logs for the four thermistors (T-4, T-5, T-6, and T-7) are included in Attachment B. The construction is summarized in Table 1 and shown on Figure 3.

Soil Sampling Procedures

During drilling, soils removed from the boreholes were screened every 10 feet for temperature and low-level VOCs using a forward-looking infrared (FLIR) camera and a PID. Measurements were recorded alongside the drill log, included in Attachment B.

At each location, a sample was collected within the waste, and another sample at the bottom of waste in native bedrock. Zones with particularly high temperature and VOC readings were prioritized for soil sample collection to determine the waste profile. Samples were collected following the Soil Sampling and Analysis Plan (Parametrix 2025b, presented as an attachment to the Limited RI Work Plan) and submitted to Friedman & Bruya, Inc. for analysis of the following:

- Total petroleum hydrocarbons (TPH), diesel and gasoline range, by Methods NWTPH-Dx and NWTPH-Gx
- RCRA metals by Environmental Protection Agency (EPA) Method 6020B
- VOCs by EPA Method 8260D
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270E

Sampling naming followed a format to include location, depth, and date. For example, T4-20-0821 was taken at location T-4 at 20 feet deep on August 21.

Waste and Soil Sampling Results

Laboratory results for the waste and soil sampling are presented in Attachment C. Data quality evaluations were completed to verify the data and are presented in Attachment D.

The waste and soil sampling results are summarized in Table 2. The results were compared to MTCA Method A and Method B cleanup levels (CULs) for protection of groundwater. The following detections were found at levels above MTCA CULs in waste:

- Gasoline and lube-oil-range TPH were detected at concentrations above MTCA CULs in the shallow samples collected at thermistors T-5 and deep samples at T-7; however, concentrations in samples taken at lower elevations in the same boreholes were below CULs or non-detect.
- Benzene concentrations were above the MTCA Method A CULs in samples T4-20-0821, T5-25-0819, and T7-70-0725.

- The naphthalene concentration in sample T6-20-0809 was above the MTCA Method A CULs.

Soil samples were collected from below the waste in each thermistor location (T4-48-0821, T5-58-0819, T6-55-0809, and T7-80-0725). There was only one exceedance above MTCA CULs:

- Benzene concentrations were above the MTCA Method A CULs in sample T5-58-0819 and its duplicate T13-65-0819

SVOCs were not detected above reporting limits in any of the samples, except for T5-58-0819 and T6-55-0809. The detections in these samples did not exceed any CULs. Metals were found below MTCA CULs. Arsenic, barium, chromium, and lead were detected. Cadmium, mercury, selenium, and silver were non-detect in all samples.

The elevated soil concentrations are consistent with previous investigations showing petroleum-contaminated soil (PCS) within the Phase 1 waste mass above MTCA CULs (Parametrix 2023).The results from this investigation show some of the oldest material placed on the northwest slope is above MTCA CULs and was likely used as base grading material (i.e. T7-70). No TPH or benzene has been detected in groundwater as part of the MTCA RI (Parametrix 2026)

Gas Probe and Thermistor Professional Survey

Following the completion of the four thermistors, the locations and elevations were professionally surveyed. Additionally, the entire gas probe and thermistor network was professionally surveyed, and the updated locations are presented on Figure 2. The results from the survey for the thermistors are included in Table 1. The survey results for the entire network are summarized in Attachment B.

Ambient Air and Landfill Gas Sampling

Ambient Air and Landfill Gas Sampling Procedures

Following the completion of the thermistors, Parametrix personnel conducted ambient air and landfill gas sampling to evaluate potential risks related to the landfill fire. Sampling was conducted on October 6, 2025 in accordance with the Air/Gas Sampling and Analysis Plan (Parametrix 2025c). The ambient air and gas probe locations are shown in Figures 1 and 2.

Ambient air sampling was conducted at four locations, AMB-1 (background at scale house), AMB-6, AMB-11, and AMB-16 along the northern edge of Phase 1, and AMB-13 in the southwestern area of Phase 1 near the thermistors (Figure 1). A duplicate sample was collected at AMB-13 (AMB-25). Ambient air sampling was conducted by taking readings of ambient air conditions with a Draeger and MultiRAE before and after deploying 5-liter summa canisters for collection over a six-hour collection period. During sampling, wildfire smoke was present in the valley north of the Site. Over the course of approximately one hour in the afternoon, smoke conditions intensified and migrated south, impacting the ambient air sampling locations. The smoke dissipated and remained primarily north of the site within the valley for the remainder of sampling. The summa canisters were submitted to Friedman & Bruya, Inc. for analyses of air-phase petroleum hydrocarbons (APH) by Method MA-APH and VOCs by Method TO-15.

Landfill gas sampling was conducted at the eight new thermistors (T-4S, T-4D, T-5S, T-5D, T-6S, T-6D, T-7S, and T-7D) and at existing gas probes GP-2, GP-3, GP-20, and T-3 (Figure 2). Gas readings were measured, after an initial purge of 1 well volume, directly from gas probes with a Drager and MultiRAE and then sampled using 1-liter summa canisters. The summa canisters were submitted to Friedman & Bruya, Inc. for analyses of the following:

- APH by Method MA-APH

- VOCs by Method TO-15
- Major gases by EPA Method 3C

Field notes are presented in Attachment B.

Ambient Air and Landfill Gas Results

Laboratory results for the ambient air and landfill gas sampling are presented in Attachment C. Data quality evaluations were completed to verify the data and are presented in Attachment D.

Field measurements for ambient air are summarized in Table 3 and for gas probes are summarized in Table 4. Ambient air field measurements were generally at background conditions with minimal changes from the morning to the evening during summa canister sampling. Gas probe measurements (Table 4) were collected at the time of sampling. The highest concentration of carbon monoxide was found up to 7,700 parts per million (ppm) at T-6D. Other high levels of carbon monoxide (above 1000 ppm) were found at GP-20, T-3, T4-S,T-6S, and T-7S. Carbon monoxide ranged from 35 to 785 ppm in other gas probes. VOCs were highest also at T-6D over 1000 ppm. VOCs ranged from 30 to 589 ppm in other gas probes and were not detected in GP-2 or GP-3.

Landfill gas results for VOCs, APH, and major gases are presented in Table 5. These results for VOCs and APH are not compared to MTCA CULs, as the purpose of the gas samples was to have a better understanding of the landfill fire zone in Phase 1 and to confirm the test parameters for the ambient air samples.

Gas probe GP-20 and thermistors T-5 (S and D), T-6 (S and D), and T-7 (S and D) had the highest concentrations of VOCs. Probes GP-20, T-3, T-4S, T-6S, T-6D, and T-7S had field measurements of carbon monoxide above 1,000 ppm, indicating fire conditions in the area. GP-2, GP-3, and T-4D had oxygen concentrations at levels similar to atmospheric conditions (17.7-20.5%), which may indicate vents present in those areas. The highest temperatures seen during the drilling of the four new thermistors were observed in T-4 (up to 244 degrees Fahrenheit).

Ambient air results for VOCs and APH are summarized in Table 6 and compared to MTCA Method B CULs. Concentrations of some VOCs (acrolein, benzene, carbon tetrachloride, and naphthalene) in all the ambient air samples were consistent with the background ambient air sample (AMB-1). These detections as well as dichlorodifluoromethane are likely related to contamination in the summa canisters and contamination from the wildfire smoke, and the results were qualified “FP” for false positive. Acrolein is also an analyte known to be a false positive in summa canister samples due to growth following cleaning (Parametrix 2024). Additional detections of acetone and propene above reporting limits but below CULs in some of the samples. Based on the background results, benzene was found at 0.1 to 0.2 µg/m^3 above background at AMB-13 over the fire area which is below the MTCA B cancer CUL. Naphthalene was not above background at location AMB-13. Both benzene and naphthalene are also often found in wildfire smoke.

Results show ambient air conditions above the fire area are below the background conditions. These are consistent with prior monitoring results following completion of the low permeability soil cover (Parametrix 2024).

Closing

Parametrix oversaw the drilling and construction of four additional thermistors with nested gas probes (T-4, T-5, T-6, T-7). During the drilling, soil and waste samples were collected and submitted for analyses to determine conditions within and below the waste. Several parameters were above MTCA

CULs within the waste. Benzene was also found above MTCA below the waste at T5. To-date benzene has not been detected in groundwater samples downgradient of Phase 1 (Parametrix 2026). Following the completion of the drilling effort, ambient air and gas probe sampling was conducted. Elevated concentrations of VOCs were observed in all the new thermistors in both the shallow and deep completions (T-4, T-5, T-6, and T-7). Probes GP-20, T-3, T-4S, T-6S, T-6D, and T-7S had field measurements of carbon monoxide above 1,000 ppm, indicating fire conditions in the area. Ambient air monitoring shows benzene releases over the fire area are below MTCA Method B CULs (AMB-13) and naphthalene concentrations were not found above background above the fire area.

Ongoing gas and temperature monitoring will continue to be conducted to evaluate the landfill fire conditions. The new thermistors and gas probes have been added to the weekly monitoring program and the data evaluated on a monthly basis.

References

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

Parametrix 2024. 2024 Emission Assessment Results. Yakima Limited Purpose Landfill, Yakima, Washington. Prepared for DTG Recycle. August 2024.

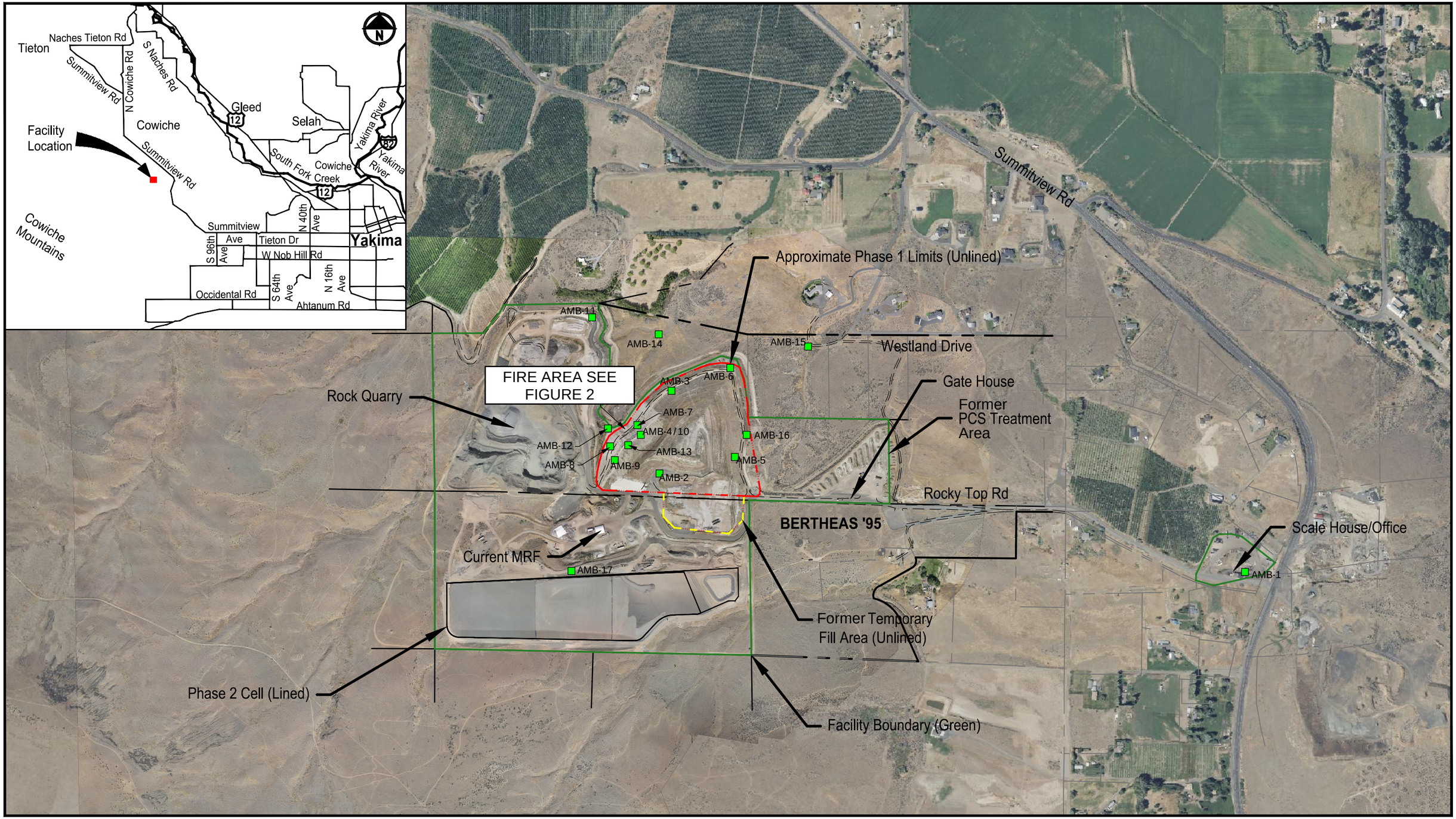
Parametrix 2025a. Limited Remedial Investigation Work Plan Rocky Top Environmental Limited Purpose Landfill. Prepared for DTG Recycling. April 2025.

Parametrix 2025b. Soil Sampling and Analysis Plan – MTCA Sampling DTG Rocky Top Environmental Limited Purpose Landfill. Prepared for DTG Recycle. March 2025.

Parametrix 2025c. Air/Gas Sampling and Analysis Plan – MTCA Sampling DTG Rocky Top Environmental Limited Purpose Landfill. Prepared for DTG Recycle. March 2025.

Parametrix. 2026. 4Q 2025 MTCA Sampling – AO # DE21624 Technical Memorandum. As prepared for the Washington State Department of Ecology on behalf of DTG Recycling. Rocky Top Environmental Limited Purpose Landfill.

Figures



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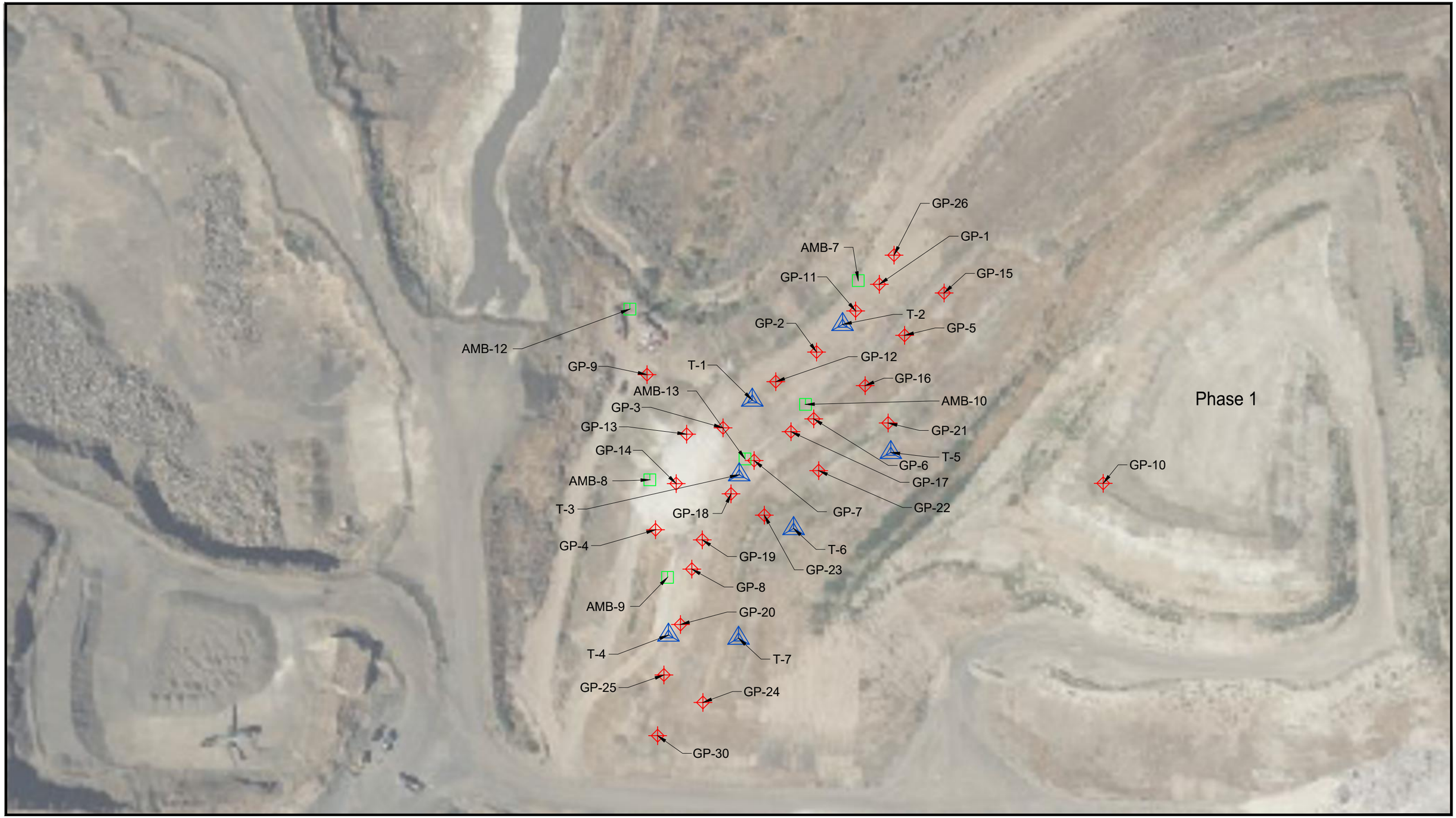
DATE: February 13, 2026

0 N 750

SCALE: 1"=750'

■ Ambient Air Sampling Location

Figure 1
Facility Vicinity Map
Rocky Top Environmental Limited Purpose Landfill



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DATE: October 29, 2025

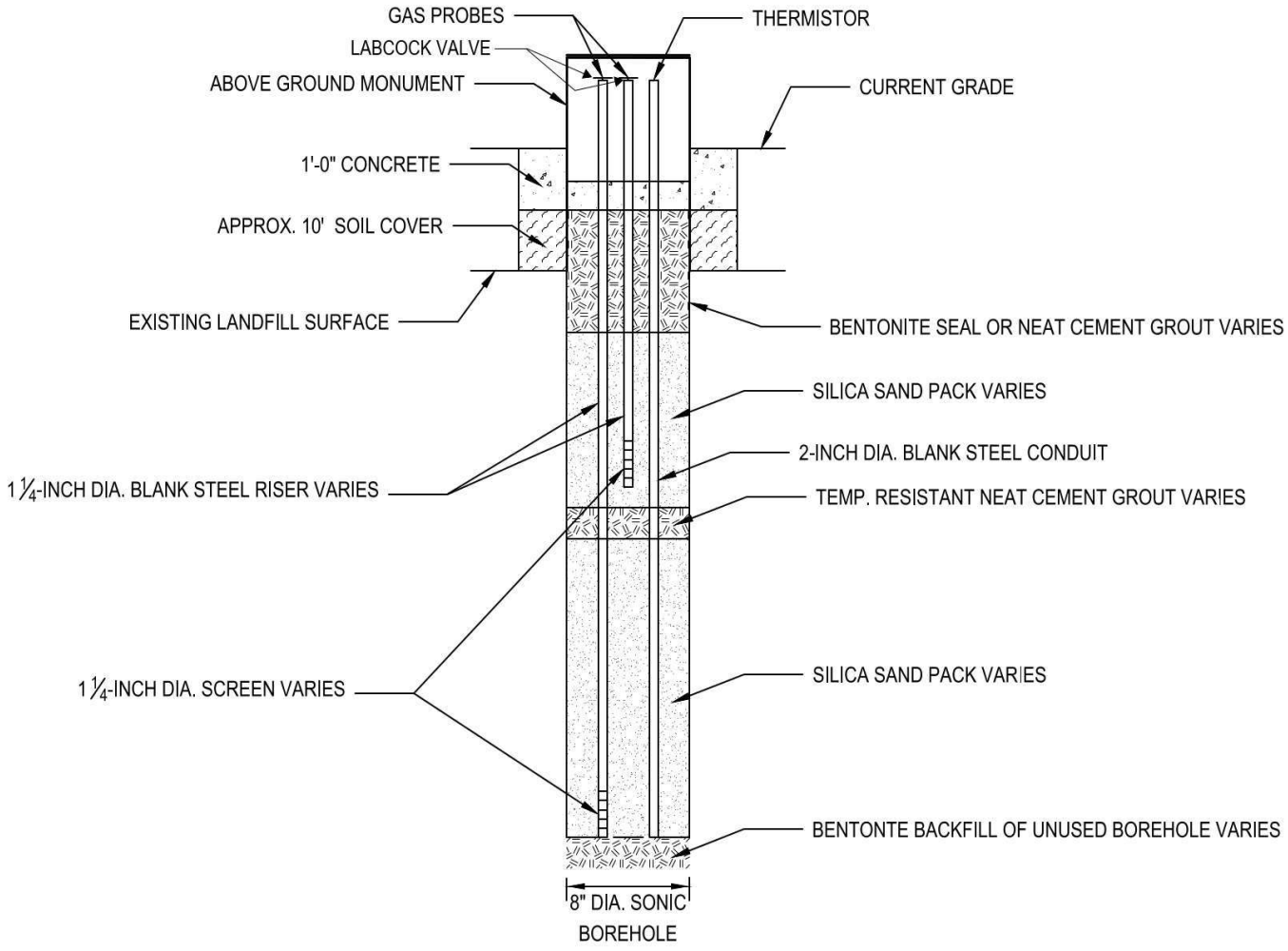
0 N 100
1 INCH = 100 FT.

THERMISTOR LOCATION

GAS PROBE LOCATION

AMBIENT AIR MONITORING LOCATION

Figure 2
Fire Area Detail Map
Rocky Top Environmental Limited Purpose Landfill



GAS PROBE AND THERMISTOR
DETAIL 1
NO SCALE

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Figure 3
Thermistor Construction Summary
DTG Rocky Top Limited Purpose Landfill

Tables

Table 1. Gas Probe and Thermistor Completion Summary, Rocky Top Environmental Limited Purpose Landfill

Location	Latitude	Longitude	Diameter (in)	Original Drilled Depth (ft bgs)	Current Probe Length (ft)	Screen Interval (ft bgs)	Waste Bottom (ft bgs)	Waste Bottom Elevation (ft)	Known Waste thickness (ft)	Current Surface Elevation (ft)	Top of Probe Elevation (ft)	Bottom of Probe Elevation (ft)
T4-S	472499.273	1591955.944	1.25	50	28	15 - 25 (21**)	48	1859.36	33	1907.36	1910.96	1882.36
T4-D			1.25		44	35 - 41						1866.36
T4 -Therm			2		44	--						1866.36
T5-S	472701.382	1592202.05	1.25	60	33	20 - 30	57	1879.98	52	1936.98	1940.36	1906.98
T5-D			1.25		58	45 - 55						1881.98
T5-Therm			2		58	--						1881.98
T6-S	472617.229	1592094.497	1.25	60	33	20 - 30	55	1882.78	50	1937.78	1941.29	1907.78
T6-D			1.25		58	40 - 50						1887.78
T6-Therm			2		58	--						1887.78
T7-S	472495.854	1592033.53	1.25	90 (70*)	53	40 - 50	75	1863.86	60	1938.86	1942.44	1888.86
T7-D			1.25		73	60 - 70						1868.86
T7-Therm			2		73	--						1868.86

Notes:

bgs = below ground surface
ft = feet
in = inches
-- = Not applicable
* = Redrilled
** = Temperature resistant seal covering the bottom 4 feet of screened interval

Table 2. Thermistor Soil Analytical Results, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	MTCA Method A	MTCA Method B Protective of groundwater	T4-20-0821 8/21/2025	T4-48-0821 8/21/2025	T5-25-0819 8/19/2025	T5-58-0819 8/19/2025	T13-65-0819 (T5-58 Dup) 8/19/2025	T6-20-0809 8/9/2025	T6-55-0809 8/9/2025	T7-70-0725 7/25/2025	T7-80-0725 7/25/2025	Trip Blank 7/25/2025
Total Petroleum Hydrocarbons													
Gasoline Range Organics	mg/kg	1000/30*		5 U	5 U	53	15 J	8.7 J	15	5 U	50	5 U	--
TPH-Dx													
Diesel Range Organics	mg/kg	2000		50 U	50 U	1100	50 U	50 U	140	50 U	1600	50 U	--
Lube Oil	mg/kg	2000		200 U	200 U	4800	200 U	200 U	660	200 U	2100	200 U	--
Total TPH-Dx	mg/kg	2000		250 U	250 U	5900	250 U	250 U	800	250 U	3700	250 U	--
Metals													
Arsenic	mg/kg	20	2.9	--	1.3	--	1.1	1 U	--	1.0 J	--	4.9 J	--
Barium	mg/kg		1600	--	140	--	32	34	--	110	--	86 J	--
Cadmium	mg/kg	2	0.69	--	1 U	--	1 U	1 U	--	1 U	--	1 U	--
Chromium	mg/kg	III: 2000; IV:19	2000	--	5 U	--	5 U	5 U	--	5 U	--	8.6 J	--
Lead	mg/kg	250	3000	--	2.5	--	13 J	3.8 J	--	2.7	--	1.7 J	--
Mercury	mg/kg	2	2.1	--	1 U	--	1 U	1 U	--	1 U	--	1 U	--
Selenium	mg/kg		5.2	--	1 U	--	1 U	1 U	--	1 U	--	1 U	--
Silver	mg/kg		14	--	1 U	--	1 U	1 U	--	1 U	--	1 U	--
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	mg/kg		0.0098	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,1,1-Trichloroethane	mg/kg	2	1.5	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
1,1,2,2-Tetrachloroethane	mg/kg		0.0012	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.2 U
1,1,2-Trichloroethane	mg/kg		0.017	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.5 U
1,1-Dichloroethane	mg/kg		0.041	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
1,1-Dichloroethene	mg/kg		0.046	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
1,1-Dichloropropene	mg/kg			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,2,3-Trichlorobenzene	mg/kg		0.2	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	2.5 U	0.25 U	1 U
1,2,3-Trichloropropane	mg/kg		0.0000024	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,2,4-Trichlorobenzene	mg/kg		0.56	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	2.5 U	0.25 U	1 U
1,2,4-Trimethylbenzene	mg/kg		1.3	0.05 U	0.05 U	0.25	0.2	0.18	0.15 J	0.05 UJ	0.5 U	0.05 U	1 U
1,2-Dibromo-3-chloropropane	mg/kg		0.00091	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	5 U	0.5 U	10 U
1,2-Dibromoethane	mg/kg	0.005	0.00027	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.05 U	0.005 U	0.01 U
1,2-Dichlorobenzene	mg/kg		7	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,2-Dichloroethane	mg/kg		0.023	0.003 U	0.003 U	0.003 U	0.003 U	0.003 U	0.003 UJ	0.003 UJ	0.03 U	0.003 U	0.2 U
1,2-Dichloropropane	mg/kg		0.025	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,3,5-Trimethylbenzene	mg/kg		1.3	0.05 U	0.05 U	0.16	0.12	0.11	0.068 J	0.05 UJ	0.5 U	0.05 U	1 U
1,3-Dichlorobenzene	mg/kg			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,3-Dichloropropane	mg/kg		0.88	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
1,4-Dichlorobenzene	mg/kg		1.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
2,2-Dichloropropane	mg/kg			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
2-Butanone	mg/kg		20	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	10 U	1 U	20 U
2-Chlorotoluene	mg/kg		1.9	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
2-Hexanone	mg/kg		0.17	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	10 U	1 U	10 U

Table 2. Thermistor Soil Analytical Results, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	MTCA Method A	MTCA Method B Protective of groundwater	T4-20-0821 8/21/2025	T4-48-0821 8/21/2025	T5-25-0819 8/19/2025	T5-58-0819 8/19/2025	T13-65-0819 (T5-58 Dup) 8/19/2025	T6-20-0809 8/9/2025	T6-55-0809 8/9/2025	T7-70-0725 7/25/2025	T7-80-0725 7/25/2025	Trip Blank 7/25/2025
Volatile Organic Compounds (cont.)													
4-Chlorotoluene	mg/kg		1.9	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Acetone	mg/kg		29	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	50 U	5 U	50 U
Benzene	mg/kg	0.03	0.027	0.075	0.002 U	0.032	0.15 J	0.085 J	0.0062 J	0.002 UJ	0.031	0.002 U	0.35 U
Bromobenzene	mg/kg		0.56	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Bromoform	mg/kg		0.36	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	5 U
Bromomethane	mg/kg		0.051	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	5 U	0.5 U	5 U
Carbon tetrachloride	mg/kg		0.041	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.5 U
CFC-11	mg/kg		23	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	5 U	0.5 U	1 U
CFC-12	mg/kg		38	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	5 U	0.5 U	1 U
Chlorobenzene	mg/kg		0.86	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Chloroethane	mg/kg			0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	1 U	0.1 U	1 U
Chloroform	mg/kg		0.074	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Chloromethane	mg/kg			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	5 U	0.5 U	10 U
cis-1,2-Dichloroethene	mg/kg		0.079	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
cis-1,3-Dichloropropene	mg/kg			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.4 U
Dibromochloromethane	mg/kg		0.024	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.5 U
Dibromomethane	mg/kg		0.36	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Dichlorobromomethane	mg/kg		0.033	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.5 U
Ethylbenzene	mg/kg	6	5.9	0.0068	0.002 U	0.94	1.2	1.1	0.079 J	0.002 UJ	0.30	0.002 U	1 U
Hexachlorobutadiene	mg/kg		0.012	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	2.5 U	0.25 U	0.5 U
Hexane	mg/kg		72	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	2.5 U	0.25 U	5 U
Isopropylbenzene (Cumene)	mg/kg		15	0.05 U	0.05 U	0.78	0.88	0.94	0.16 J	0.05 UJ	0.5 U	0.05 U	1 U
m, p-Xylene	mg/kg		13	0.0099	0.004 U	0.35	0.33	0.32	0.031 J	0.004 UJ	0.099	0.004 U	2 U
Methyl isobutyl ketone	mg/kg		2.7	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	10 U	1 U	10 U
Methyl t-butyl ether	mg/kg	0.1	0.1	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
Methylene chloride	mg/kg	0.02	0.022	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 UJ	0.4 UJ	4 U	0.4 U	5 U
Naphthalene	mg/kg	5	4.5	0.01 U	0.01 U	0.24	0.071 J	0.028 J	10 J	0.01 UJ	4.8	0.01 U	1 U
n-Propylbenzene	mg/kg		16	0.05 U	0.05 U	0.13	0.12	0.11	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
o-Xylene	mg/kg		14	0.0034	0.002 U	0.27	0.21	0.2	0.042 J	0.002 UJ	0.11	0.002 U	1 U
p-Isopropyltoluene	mg/kg		0.86	0.05 U	0.05 U	0.54	0.41	0.35	0.1 J	0.05 UJ	0.5 U	0.05 U	1 U
sec-Butylbenzene	mg/kg		25	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Styrene	mg/kg		2.2	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
tert-Butylbenzene	mg/kg		20	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	1 U
Tetrachloroethene	mg/kg	0.05	0.05	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	0.5 U
Toluene	mg/kg	7	4.5	0.013	0.008 U	0.24	0.3 J	0.2 J	0.0094 J	0.008 UJ	0.08 U	0.008 U	1 U
trans-1,2-Dichloroethene	mg/kg		0.52	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	1 U
trans-1,3-Dichloropropene	mg/kg			0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.5 U	0.05 U	0.4 U
Trichloroethene	mg/kg	0.03	0.025	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	0.05 U
Vinyl chloride	mg/kg		0.0017	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.02 U	0.002 U	0.02 U

Table 2. Thermistor Soil Analytical Results, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	MTCA Method A	MTCA Method B Protective of groundwater	T4-20-0821 8/21/2025	T4-48-0821 8/21/2025	T5-25-0819 8/19/2025	T5-58-0819 8/19/2025	T13-65-0819 (T5-58 Dup) 8/19/2025	T6-20-0809 8/9/2025	T6-55-0809 8/9/2025	T7-70-0725 7/25/2025	T7-80-0725 7/25/2025	Trip Blank 7/25/2025
Semi-Volatile Organic Compounds													
1,2,4-Trichlorobenzene	mg/kg		0.56	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
1,2-Dichlorobenzene	mg/kg		7	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
1,3-Dichlorobenzene	mg/kg			--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
1,4-Dichlorobenzene	mg/kg		1.2	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
1-Methylnaphthalene	mg/kg		0.047	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
2,2'-Oxybis(1-chloropropane)	mg/kg		0.0035	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
2,4,5-Trichlorophenol	mg/kg		58	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
2,4,6-Trichlorophenol	mg/kg		0.092	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
2,4-Dichlorophenol	mg/kg		0.33	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
2,4-Dimethylphenol	mg/kg		4.4	--	0.5 U	--	5 U	2.5 U	--	0.5 U	--	0.5 U	0.5 U
2,4-Dinitrophenol	mg/kg		0.13	--	1 U	--	10 UJ	5 UJ	--	1 U	--	1 U	1 U
2,4-Dinitrotoluene	mg/kg		0.0044	--	0.12 U	--	1.2 U	0.62 U	--	0.12 U	--	0.12 U	0.12 U
2,6-Dinitrotoluene	mg/kg		0.00092	--	0.12 U	--	1.2 U	0.62 U	--	0.12 U	--	0.12 U	0.12 U
2-Chloronaphthalene	mg/kg		34	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
2-Chlorophenol	mg/kg		0.47	--	0.12 U	--	1.2 U	0.62 U	--	0.12 U	--	0.12 U	0.12 U
2-Methylnaphthalene	mg/kg		1.7	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
2-Methylphenol	mg/kg		8.1	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
2-Nitroaniline	mg/kg		1	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
2-Nitrophenol	mg/kg			--	0.5 UJ	--	5 UJ	2.5 UJ	--	0.5 U	--	0.5 U	0.5 U
3-Methylphenol + 4-Methylphenol	mg/kg		8	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
3-Nitroaniline	mg/kg			--	0.5 U	--	5 U	2.5 U	--	0.5 U	--	0.5 U	0.5 U
4,6-Dinitro-2-methylphenol	mg/kg		0.024	--	1 UJ	--	10 UJ	5 UJ	--	1 U	--	1 U	1 U
4-Chloro-3-methylphenol	mg/kg		22	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
4-Chloroaniline	mg/kg		0.0027	--	5 U	--	50 U	25 U	--	5 U	--	5 U	5 U
4-Chlorophenyl phenyl ether	mg/kg			--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
4-Nitroaniline	mg/kg		0.027	--	0.5 UJ	--	5 UJ	2.5 UJ	--	0.5 UJ	--	0.5 U	0.5 U
4-Nitrophenol	mg/kg			--	0.5 U	--	5 U	2.5 U	--	0.5 U	--	0.5 U	0.5 U
Acenaphthene	mg/kg		49	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Acenaphthylene	mg/kg			--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Anthracene	mg/kg		1100	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Benz[a]anthracene	mg/kg			--	0.005 U	--	0.059	0.025 U	--	0.005 U	--	0.005 U	0.005 U
Benzo(a)pyrene	mg/kg	0.1	3.9	--	0.0025 U	--	0.044	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Benzo(b)fluoranthene	mg/kg			--	0.0025 U	--	0.097	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Benzo(ghi)perylene	mg/kg			--	0.005 U	--	0.05 U	0.025 U	--	0.005 U	--	0.005 U	0.005 U
Benzo(k)fluoranthene	mg/kg			--	0.0025 U	--	0.027	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Benzoic acid	mg/kg		260	--	1 UJ	--	10 U	5 U	--	1 U	--	1 U	1 U
Benzyl alcohol	mg/kg			--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
Bis(2-chloroethoxy)methane	mg/kg		0.21	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Bis(2-chloroethyl) ether	mg/kg		0.00022	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U

Table 2. Thermistor Soil Analytical Results, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	MTCA Method A	MTCA Method B Protective of groundwater	T4-20-0821 8/21/2025	T4-48-0821 8/21/2025	T5-25-0819 8/19/2025	T5-58-0819 8/19/2025	T13-65-0819 (T5-58 Dup) 8/19/2025	T6-20-0809 8/9/2025	T6-55-0809 8/9/2025	T7-70-0725 7/25/2025	T7-80-0725 7/25/2025	Trip Blank 7/25/2025
Semi-Volatile Organic Compounds (cont.)													
Bis(2-ethylhexyl) phthalate	mg/kg		13	--	0.5 U	--	5 U	2.5 U	--	0.5 U	--	0.5 U	0.5 U
Butylbenzyl phthalate	mg/kg		13	--	0.25 UJ	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
Carbazole	mg/kg			--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Chrysene	mg/kg			--	0.0025 U	--	0.088	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Dibenzo(a,h)anthracene	mg/kg			--	0.005 U	--	0.05 U	0.025 U	--	0.005 U	--	0.005 U	0.005 U
Dibenzofuran	mg/kg		1.5	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Diethyl phthalate	mg/kg		72	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
Dimethyl phthalate	mg/kg			--	0.12 U	--	1.2 U	0.62 U	--	0.12 U	--	0.12 U	0.12 U
Di-n-butyl phthalate	mg/kg		57	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
Di-n-octyl phthalate	mg/kg		450	--	0.5 U	--	5 U	2.5 U	--	0.5 U	--	0.5 U	0.5 U
Fluoranthene	mg/kg		630	--	0.0025 U	--	0.057	0.012 U	--	0.0031	--	0.0025 U	0.0025 U
Fluorene	mg/kg		51	--	0.0025 U	--	0.025 U	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Hexachlorobenzene	mg/kg		0.44	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Hexachlorobutadiene	mg/kg		0.012	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Hexachlorocyclopentadiene	mg/kg		1.5	--	0.05 UJ	--	0.5 UJ	0.25 UJ	--	0.05 UJ	--	0.05 UJ	0.05 U
Hexachloroethane	mg/kg		0.0088	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Indeno(1,2,3-cd)pyrene	mg/kg			--	0.005 U	--	0.05 U	0.025 U	--	0.005 U	--	0.005 U	0.005 U
Isophorone	mg/kg		0.49	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Naphthalene	mg/kg	5	4.5	--	0.005 U	--	0.05 U	0.025 U	--	0.005 U	--	0.005 U	0.005 U
Nitrobenzene	mg/kg		0.1	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
N-Nitroso-di-n-propylamine	mg/kg		0.00012	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
N-Nitrosodiphenylamine	mg/kg		1	--	0.05 U	--	0.5 U	0.25 U	--	0.05 U	--	0.05 U	0.05 U
Pentachlorophenol	mg/kg		0.016	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U
Phenanthrene	mg/kg			--	0.0025 U	--	0.025 U	0.012 U	--	0.0092	--	0.0025 U	0.0025 U
Phenol	mg/kg		8	--	0.12 U	--	1.2 U	0.62 U	--	0.12 U	--	0.12 U	0.12 U
Pyrene	mg/kg		330	--	0.0025 U	--	0.068	0.012 U	--	0.0025 U	--	0.0025 U	0.0025 U
Pyridine	mg/kg		0.043	--	0.25 U	--	2.5 U	1.2 U	--	0.25 U	--	0.25 U	0.25 U

Notes

Metals = Metals (RCRA 8) analyzed by EPA Method SW6020
SVOCs = Semivolatile organic compounds analyzed using EPA Method 8270E
TPH-Dx = Diesel-range organics, total petroleum hydrocarbons (diesel and motor oil) analyzed using method NWTPH-Dx
TPH-Gx = Gasoline-range organics, total petroleum hydrocarbons analyzed using method NWTPH-Gx
VOCs = Volatile Organic Compounds analyzed by EPA Method 8260D
* = Cleanup level if benzene present
-- = Not analyzed
J = Estimated value
U = Not detected above laboratory reporting limit

Table 3. Ambient Air Sample Field Data Summary, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Field Data	Units	AMB-1		AMB-6		AMB-11		AMB-13		AMB-16	
		8:20	14:30	8:35	14:46	9:05	15:05	8:48	14:55	8:30	14:41
Methane	pbv	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carbon Monoxide	ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hydrogen	pbv	0.0	0.0	0.0	0.0	0.02	0.02	0.02	0.02	0.0	0.0
Oxygen	pbv	20.5	20.4	20.4	20.7	20.4	20.7	20.4	20.7	20.4	20.7
Hydrogen Sulfide	ppm	0.0	0.4	0.0	0.3	0.1	0.4	0.1	0.5	0.0	0.3
VOCs	ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes

Samples monitored using Draeger, except VOCs monitored using MultiRAE

pbv = % by volume

ppm = Parts per million

VOCs = Volatile organic compounds

Table 4. Landfill Gas Field Data Summary at Gas Probes and Thermistors, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Field Data	Units	GP-2	GP-3	GP-20[1]	T-3	T-4S	T-4D	T-5S	T-5D	T-6S	T-6D	T-7S	T-7D
Methane	pbv	0.0	0.1	0.4	0.4	0.1	0.0	1.5	23	1.2	1.5	0.9	4.6
LEL	%	--	--	--	--	--	--	--	--	--	--	--	--
Carbon Monoxide	ppm	35	105	1,380[1]	6,300	1,650	60	770	410	6,150	7,700	6,200	785
Hydrogen	pbv	0	0.5	0.1	0.42	0.60	0.02	0.14	0.06	--	0.78	0.6	--
Oxygen	pbv	18.5	18.1	0.5	0.6	0.8	18.3	0.5	0.8	0.4	0.5	0.5	0.4
Hydrogen Sulfide	ppm	0.5	0.5	1.1	1.6	6.3	0.4	9.9	30.8	39.2[2]	11.7	19..2	5.4
VOCs	ppm	0.0	0.0	96	196	30	71	246	143	589	>1,000	521	64

Notes

Samples monitored using Draeger, except VOCs monitored using MultiRAE

[1] = Carbon monoxide reading taken from October 3, 2026 monitoring event

[2] = Hydrogen sulfide reading taken from October 1, 2026 monitoring event

pbv = % by volume

ppm = Parts per million

LEL = Lower explosive limit

VOCs = Volatile organic compounds

-- = Not analyzed

Table 5. Volatile Organic Compounds and Air-Phase Petroleum Hydrocarbons in Landfill Gas, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GP-2	GP-3	GP-20	T-3	T-4S	T-4D	T-5S	T-5D	T-6S	T-6D	T-7S	T-7D
Aliphatics													
APH EC5-8 aliphatics	µg/m³	1,300	430 U	83,000	100,000	19,000	21,000	330,000	350,000	1,100,000 U	2,300,000 U	1,100,000 U	280,000
APH EC9-12 aliphatics	µg/m³	400 U	140 U	27,000 U	25,000 U	6,000 U	16,000	210,000	220,000	370,000 U	750,000 U	370,000 U	250,000
APH EC9-10 aromatics	µg/m³	400 U	140 U	27,000 U	25,000 U	6,000 U	5,000 U	52,000 U	100,000	370,000 U	750,000 U	370,000 U	210,000
Volatile Organic Compounds													
1,1,1-Trichloroethane	µg/m³	8.7 U	3.1 U	600 U	550 U	130 U	110 U	1,100 U	1,100 U	8,200 U	16,000 U	8,200 U	270 U
1,1,2,2-Tetrachloroethane	µg/m³	2.2 U	0.78 U	150 U	140 U	33 U	27 U	290 U	290 U	2,100 U	4,100 U	2,100 U	69 U
1,1,2-Trichloroethane	µg/m³	0.87 U	0.31 U	60 U	55 U	13 U	11 U	110 U	110 U	820 U	1,600 U	820 U	27 U
1,1-Dichloroethane	µg/m³	6.5 U	2.3 U	450 U	400 U	97 U	81 U	850 U	850 U	6,100 U	12,000 U	6,100 U	200 U
1,1-Dichloroethene	µg/m³	24	7.9	440 U	400 U	95 U	79 U	830 U	830 U	5,900 U	12,000 U	5,900 U	200 U
1,2,4-Trichlorobenzene	µg/m³	12 U	4.2 U	820 U	740 U	180 U	150 U	1,600 U	1,600 U	11,000 U	22,000 U	11,000 U	370 U
1,2,4-Trimethylbenzene	µg/m³	79 U	28 U	5,400 U	4,900 U	1,200 U	980 U	10,000 U	10,000 U	74,000 U	150,000 U	74,000 U	19,000
1,2-Dibromoethane (EDB)	µg/m³	1.2 U	0.44 U	85 U	77 U	18 U	15 U	160 U	160 U	1,200 U	2,300 U	1,200 U	38 U
1,2-Dichlorobenzene	µg/m³	9.6 U	3.4 U	660 U	600 U	140 U	120 U	1,300 U	1,300 U	9,000 U	18,000 U	9,000 U	300 U
1,2-Dichloroethane (EDC)	µg/m³	24	5.3	45 U	40 U	9.7 U	8.1 U	85 U	85 U	610 U	1,200 U	610 U	20 U
1,2-Dichloropropane	µg/m³	6.6	1.3 U	250 U	230 U	55 U	46 U	490 U	490 U	3,500 U	6,900 U	3,500 U	210
1,3,5-Trimethylbenzene	µg/m³	79 U	28 U	5,400 U	4,900 U	1,200 U	980 U	10,000 U	10,000 U	74,000 U	150,000 U	74,000 U	12,000
1,3-Butadiene	µg/m³	0.71 U	0.25 U	49 U	44 U	11 U	8.8 U	93 U	93 U	660 U	1,300 U	660 U	22 U
1,3-Dichlorobenzene	µg/m³	9.6 U	3.4 U	660 U	600 U	140 U	120 U	1,300 U	1,300 U	9,000 U	18,000 U	9,000 U	300 U
1,4-Dichlorobenzene	µg/m³	3.7 U	1.3 U	250 U	230 U	55 U	46 U	480 U	480 U	3,400 U	6,900 U	3,400 U	130
1,4-Dioxane	µg/m³	5.8 U	2.1 U	400 U	6,100	86 U	76	3,400	6,000	14,000	14,000	6,400	12,000
2,2,4-Trimethylpentane	µg/m³	75 U	27 U	5,100 U	4,700 U	1,100 U	930 U	9,800 U	9,800 U	70,000 U	140,000 U	70,000 U	2,300 U
2-Butanone (MEK)	µg/m³	94 U	34 U	6,500 U	35,000	1,400 U	14,000 J	66,000	12,000 U	88,000 U	180,000 U	88,000 U	2,900 U
2-Chlorotoluene	µg/m³	83 U	30 U	5,700 U	5,200 U	1,200 U	1,000 U	11,000 U	11,000 U	78,000 U	160,000 U	78,000 U	2,600 U
2-Hexanone	µg/m³	66 U	23 U	4,500 U	4,100 U	980 U	5,300	8,600 U	8,600 U	61,000 U	120,000 U	61,000 U	2,000 U
2-Propanol	µg/m³	140 U	49 U	9,500 U	8,600 U	3,300	1,700 U	160,000 J	18,000 U	130,000 U	260,000 U	130,000 U	4,300 U
3-Chloropropene	µg/m³	50 U	18 U	3,400 U	3,100 U	750 U	630 U	6,600 U	6,600 U	47,000 U	94,000 U	47,000 U	1,600 U
4-Ethyltoluene	µg/m³	79 U	28 U	5,400 U	4,900 U	1,200 U	980 U	10,000 U	10,000 U	74,000 U	150,000 U	74,000 U	7,800
4-Methyl-2-pentanone	µg/m³	130 U	47 U	9,000 U	8,200 U	2,000 U	1,600 U	17,000 U	17,000 U	120,000 U	250,000 U	120,000 U	4,100 U
Acetone	µg/m³	95 U	190	39,000	110,000 J	18,000 J	89,000 J	140,000 J	37,000	89,000 U	180,000 U	200,000	7,900
Acrolein	µg/m³	1.8 U	0.65 U	130 U	110 U	28 U	230	240 U	240 U	1,700 U	3,400 U	1,700 U	57 U
Benzene	µg/m³	1700 J	220	70,000 J	51,000 J	24,000 J	640	67,000	100,000 J	280,000	480,000	240,000	70,000 J
Benzyl chloride	µg/m³	0.83 U	0.3 U	57 U	52 U	12 U	10 U	110 U	110 U	780 U	1,600 U	780 U	26 U
Bromodichloromethane	µg/m³	10	1.1	74 U	67 U	16 U	64	140 U	140 U	1,000 U	2,000 U	1,000 U	34 U
Bromoform	µg/m³	33 U	12 U	2,300 U	2,100 U	500 U	410 U	4,300 U	4,300 U	31,000 U	62,000 U	31,000 U	1,000 U

Table 5. Volatile Organic Compounds and Air-Phase Petroleum Hydrocarbons in Landfill Gas, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GP-2	GP-3	GP-20	T-3	T-4S	T-4D	T-5S	T-5D	T-6S	T-6D	T-7S	T-7D
Volatile Organic Compounds (cont.)													
Bromomethane	µg/m³	62 U	22 U	4,300 U	3,900 U	930 U	780 U	8,200 U	8,200 U	58,000 U	120,000 U	58,000 U	1,900 U
Butane	µg/m³	460	31	15,000	4,800	6,400	950 U	16,000	10,000 U	100,000	140,000 U	71,000 U	36,000 J
Carbon disulfide	µg/m³	100 U	36 U	6,900 U	6,200 U	1,500 U	1,200 U	13,000 U	13,000 U	93,000 U	190,000 U	93,000 U	3,100 U
Carbon tetrachloride	µg/m³	5 U	1.8 U	350 U	310 U	75 U	63 U	660 U	660 U	4,700 U	9,400 U	4,700 U	160 U
CFC-113	µg/m³	25 U	8.7 U	1,700 U	1,500 U	370 U	310 U	3,200 U	3,200 U	23,000 U	46,000 U	23,000 U	770 U
Chlorobenzene	µg/m³	14	2.6 U	880	460 U	580	92 U	2,600	2,300	6,900 U	14,000 U	6,900 U	1,400
Chloroethane	µg/m³	42 U	15 U	2,900 U	2,600 U	630 U	530 U	5,500 U	5,500 U	40,000 U	79,000 U	40,000 U	1,300 U
Chloroform	µg/m³	100	4.7	54 U	49 U	76	430	100 U	100 U	730 U	1,500 U	730 U	24 U
Chloromethane	µg/m³	130	21 U	5,600	5,700	1,300	740 U	7,800 U	7,800 U	56,000 U	110,000 U	56,000 U	1,900 U
cis-1,2-Dichloroethene	µg/m³	6.3 U	2.3 U	440 U	400 U	95 U	79 U	830 U	830 U	5,900 U	12,000 U	5,900 U	200 U
cis-1,3-Dichloropropene	µg/m³	15 U	5.2 U	1,000 U	910 U	220 U	180 U	1,900 U	1,900 U	14,000 U	27,000 U	14,000 U	450 U
Cyclohexane	µg/m³	110 U	39 U	7,600 U	6,900 U	1,700 U	1400 U	14,000 U	14,000 U	100,000 U	210,000 U	100,000 U	3,400 U
Dibromochloromethane	µg/m³	4.4	0.97	94 U	85 U	20 U	26	180 U	180 U	1,300 U	2,600 U	1,300 U	43 U
Dichlorodifluoromethane	µg/m³	23	5.6 U	1,100 U	990 U	240 U	200 U	2,100 U	2,100 U	15,000 U	30,000 U	15,000 U	680
Ethanol	µg/m³	300 U	110 U	21,000 U	24,000	4,500 U	3,800 U	49,000	40,000 U	280,000 U	570,000 U	280,000 U	9,400 U
Ethyl acetate	µg/m³	120 U	41 U	7,900 U	7,200 U	1,700 U	1,400 U	15,000 U	15,000 U	110,000 U	220,000 U	110,000 U	3,600 U
Ethylbenzene	µg/m³	6.9 U	2.5 U	2,200 J	9,900	1,800	270	150,000 J	180,000 J	86,000	220,000	100,000	99,000 J
F-114	µg/m³	34 U	12 U	2,300 U	2,100 U	500 U	420 U	4,400 U	4,400 U	31,000 U	63,000 U	31,000 U	1,000 U
Heptane	µg/m³	66 U	23 U	4,500 U	4,100 U	1,800	820 U	8,600 U	8,600 U	61,000 U	120,000 U	61,000 U	9,500
Hexachlorobutadiene	µg/m³	3.4 U	1.2 U	230 U	210 U	51 U	43 U	450 U	450 U	3,200 U	6,400 U	3,200 U	110 U
Hexane	µg/m³	160	20 U	5,100	3,500 U	2,500	700 U	7,400 U	7,400 U	54,000	110,000 U	53,000 U	13,000
Isopropylbenzene	µg/m³	160 U	56 U	11,000 U	9,800 U	2,400 U	2,000 U	47,000	70,000	150,000 U	290,000 U	150,000 U	65,000 J
m,p-Xylene	µg/m³	14 U	5 U	960 U	2,600	740	320	44,000	43,000	25,000	51,000	27,000	25,000
Methyl methacrylate	µg/m³	66 U	23 U	4,500 U	4,100 U	980 U	820 U	8,600 U	8,600 U	61,000 U	120,000 U	61,000 U	2,000 U
Methyl t-butyl ether (MTBE)	µg/m³	120 U	41 U	7,900 U	7,200 U	1,700 U	1,400 U	15,000 U	15,000 U	110,000 U	220,000 U	110,000 U	3,600 U
Methylene chloride	µg/m³	560 U	200 U	38,000 U	35,000 U	8,300 U	6,900 U	73,000 U	73,000 U	520,000 U	1,000,000 U	520,000 U	17,000 U
Naphthalene	µg/m³	4.2 U	1.5 U	290 U	470	63 U	52 U	550 U	550 U	12,000	7,900 U	6,200	1,500
Nonane	µg/m³	84 U	30 U	5,800 U	5,200 U	1,300 U	1,000 U	23,000	44,000	79,000 U	160,000 U	79,000 U	17,000
o-Xylene	µg/m³	6.9 U	2.5 U	480 U	1,400	260	120	23,000	23,000	21,000	31,000	15,000	21,000
Pentane	µg/m³	380	34 U	11,000	5,900 U	5,000	1,200 U	14,000	12,000 U	110,000	180,000 U	89,000 U	36,000 J
Propene	µg/m³	250	7.8 U	37,000 J	12,000	9,600 J	490	41,000	8,400	350,000	350,000	200,000	89,000 J
Propylbenzene	µg/m³	79 U	28 U	5,400 U	4,900 U	1,200 U	980 U	10,000 U	10,000 U	74,000 U	150,000 U	74,000 U	6,300
Styrene	µg/m³	14 U	4.9 U	940 U	850 U	200 U	170 U	1,800 U	1,800 U	13,000 U	26,000 U	13,000 U	420 U
t-Butyl alcohol (TBA)	µg/m³	190 U	69 U	13,000 U	12,000 U	2,900 U	2,400 U	25,000 U	25,000 U	180,000 U	360,000 U	180,000 U	6,100 U

Table 5. Volatile Organic Compounds and Air-Phase Petroleum Hydrocarbons in Landfill Gas, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	GP-2	GP-3	GP-20	T-3	T-4S	T-4D	T-5S	T-5D	T-6S	T-6D	T-7S	T-7D
Volatile Organic Compounds (cont.)													
Tetrachloroethene	µg/m³	110 U	39 U	7,500 U	6,800 U	1,600 U	1,400 U	14,000 U	14,000 U	100,000 U	200,000 U	100,000 U	3,400 U
Tetrahydrofuran	µg/m³	14 U	5 U	3,300	15,000	210 U	430	37,000	17,000	26,000	27,000 U	44,000	13,000
Toluene	µg/m³	120 U	43 U	8,300 U	9,000	2,500	1,500 U	130,000 J	80,000	110,000 U	250,000	110,000 U	41,000 J
trans-1,2-Dichloroethene	µg/m³	6.3 U	2.3 U	440 U	400 U	95 U	79 U	830 U	830 U	5,900 U	12,000 U	5,900 U	200 U
trans-1,3-Dichloropropene	µg/m³	7.3 U	2.6 U	500 U	450 U	110 U	91 U	950 U	950 U	6,800 U	14,000 U	6,800 U	230 U
Trichloroethene	µg/m³	1.7 U	0.61 U	120 U	110 U	26 U	21 U	230 U	230 U	1,600 U	3,200 U	1,600 U	54 U
Trichlorofluoromethane	µg/m³	36 U	15	2,500 U	2,200 U	540 U	450 U	4,700 U	4,700 U	34,000 U	67,000 U	34,000 U	1,100 U
Vinyl acetate	µg/m³	110 U	40 U	7,700 U	7,000 U	1,700 U	1,400 U	15,000 U	15,000 U	110,000 U	210,000 U	110,000 U	3,500 U
Vinyl bromide	µg/m³	7 U	2.5 U	480 U	440 U	100 U	87 U	920 U	920 U	6,600 U	13,000 U	6,600 U	220 U
Vinyl chloride	µg/m³	2 U	0.73 U	140 U	130 U	31 U	26 U	270 U	270 U	1,900 U	3,800 U	1,900 U	64 U
Major Gases													
BTU	BTU/ft³	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Dioxide	%	0.0500 U	0.0500 U	22.4	21.1	19.3	0.0500 U	23.3	20.8	24.2	23.5	24.4	25.6
Hydrogen	%	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.854	0.0500 U	0.0500 U	0.0500 U
Carbon Monoxide	%	0.0500 U	0.0500 U	0.0500 U	0.449	0.274	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.46	0.433	0.0500 U
Methane	%	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Nitrogen	%	82.3	79.5	76.3	77.2	78.8	79.9	75.4	77.8	73.7	74.8	73.9	73.2
Oxygen	%	17.7	20.5	1.32	1.27	1.59	20.1	1.31	1.38	1.25	1.29	1.28	1.27

Notes

All units in µg/m³ except as noted for major gases.

Aliphatics = Aliphatics analyzed by Method MA-APH
MA-APH = Massachusetts Air-Phase Petroleum Hydrocarbons
VOCs = Volatile organic compounds analyzed by Method TO-15
-- = Not analyzed
NA = Not applicable
J = Estimated value
U = Not detected above laboratory reporting limit

Table 6. Volatile Organic Compounds and Air-phase Petroleum Hydrocarbons in Ambient Air, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	Air Method B Noncancer	Air Method B Cancer	AMB-1	AMB-6	AMB-11	AMB-13	AMB-25 (AMB-13 Dup)	AMB-16
Aliphatics									
APH EC5-8 aliphatics	µg/m³			90 U	90 U	90 U	90 U	90 U	90 U
APH EC9-12 aliphatics	µg/m³			30 U	30 U	30 U	30 U	30 U	30 U
APH EC9-10 aromatics	µg/m³			30 U	30 U	30 U	30 U	30 U	30 U
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/m³	2,300		0.65 U	0.65 U	0.65 U	0.65 U	0.65 U	0.65 U
1,1,2,2-Tetrachloroethane	µg/m³		0.043	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2-Trichloroethane	µg/m³	0.091	0.16	0.07 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,1-Dichloroethane	µg/m³		1.6	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
1,1-Dichloroethene	µg/m³	91		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
1,2,4-Trichlorobenzene	µg/m³	0.91		0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
1,2,4-Trimethylbenzene	µg/m³	27		5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
1,2-Dibromoethane (EDB)	µg/m³	4.1	0.0042	0.09 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
1,2-Dichlorobenzene	µg/m³	91		0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
1,2-Dichloroethane (EDC)	µg/m³	3.2	0.096	0.05 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
1,2-Dichloropropane	µg/m³	1.8	0.68	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,3,5-Trimethylbenzene	µg/m³	27		5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
1,3-Butadiene	µg/m³	0.91	0.083	0.05 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
1,3-Dichlorobenzene	µg/m³			0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
1,4-Dichlorobenzene	µg/m³	370	0.23	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,4-Dioxane	µg/m³	14	0.5	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
2,2,4-Trimethylpentane	µg/m³			5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
2-Butanone (MEK)	µg/m³	2.30E+03		7.1 U	7.1 U	7.1 U	7.1 U	7.1 U	7.1 U
2-Chlorotoluene	µg/m³			6.2 U	6.2 U	6.2 U	6.2 U	6.2 U	6.2 U
2-Hexanone	µg/m³	14		4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
2-Propanol	µg/m³			10 U	10 U	10 U	10 U	10 U	10 U
3-Chloropropene	µg/m³			3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-Ethyltoluene	µg/m³			5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
4-Methyl-2-pentanone	µg/m³	1.40E+03		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Acetone	µg/m³			7.1 U	19	7.1 U	7.1 U	8.6	24
Acrolein	µg/m³	0.0091		0.61 FP	0.62 FP	0.55 FP	0.48 FP	0.56 FP	0.53 FP
Benzene	µg/m³	14	0.32	1.1 FP	1.1 FP	1.1 FP	1.2 FP	1.3 FP	1.0 FP
Benzyl chloride	µg/m³	0.46	0.051	0.06 U	0.062 U	0.062 U	0.062 U	0.062 U	0.062 U
Bromodichloromethane	µg/m³		0.068	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Bromoform	µg/m³		2.3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromomethane	µg/m³	2.3		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Butane	µg/m³			5.7 U	5.7 U	5.7 U	5.7 U	5.7 U	5.7 U
Carbon disulfide	µg/m³	320		7.5 U	7.5 U	7.5 U	7.5 U	7.5 U	7.5 U
Carbon tetrachloride	µg/m³	46	0.42	0.49 FP	0.46 FP	0.48 FP	0.45 FP	0.47 FP	0.48 FP
CFC-113	µg/m³	2300		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Chlorobenzene	µg/m³	23		0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
Chloroethane	µg/m³	4600		3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
Chloroform	µg/m³	0.91	0.11	0.06 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U
Chloromethane	µg/m³	41		4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U
cis-1,2-Dichloroethene	µg/m³	18		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
cis-1,3-Dichloropropene	µg/m³	9.1	0.63	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Cyclohexane	µg/m³	2700		8.3 U	8.3 U	8.3 U	8.3 U	8.3 U	8.3 U
Dibromochloromethane	µg/m³			0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Dichlorodifluoromethane	µg/m³	46		2.6 FP	2.5 FP	1.9 FP	2.0 FP	2.2 FP	2.7 FP
Ethanol	µg/m³			23 U	23 U	23 U	23 U	23 U	23 U
Ethyl acetate	µg/m³	32		8.6 U	8.6 U	8.6 U	8.6 U	8.6 U	8.6 U
Ethylbenzene	µg/m³	460		0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
F-114	µg/m³			2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Heptane	µg/m³	180		4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Hexachlorobutadiene	µg/m³		0.11	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Hexane	µg/m³	320		4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U
Isopropylbenzene	µg/m³	180		12 U	12 U	12 U	12 U	12 U	12 U
m,p-Xylene	µg/m³	46		1 U	1 U	1 U	1 U	1 U	1 U
Methyl methacrylate	µg/m³	320		4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Methyl t-butyl ether (MTBE)	µg/m³	1,400	9.6	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U	8.7 U
Methylene chloride	µg/m³	270	66	42 U	42 U	42 U	42 U	42 U	42 U
Naphthalene	µg/m³	1.4	0.074	0.20 FP	0.33 FP	0.15 FP	0.065 J, FP	0.16 FP	0.27 FP
Nonane	µg/m³			6.3 U	6.3 U	6.3 U	6.3 U	6.3 U	6.3 U
o-Xylene	µg/m³	46		0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Pentane	µg/m³	460		7.1 U	7.1 U	7.1 U	7.1 U	7.1 U	7.1 U
Propene	µg/m³			1.7 U	1.8	1.7 U	1.7 U	1.7	1.7 U
Propylbenzene	µg/m³	460		5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U
Styrene	µg/m³	460		1 U	1 U	1 U	1 U	1 U	1 U
t-Butyl alcohol (TBA)	µg/m³			15 U	15 U	15 U	15 U	15 U	15 U
Tetrachloroethene	µg/m³	18	9.6	8.1 U	8.1 U	8.1 U	8.1 U	8.1 U	8.1 U
Tetrahydrofuran	µg/m³	910		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Toluene	µg/m³	2,300		9 U	9 U	9 U	9 U	9 U	9 U

Table 6. Volatile Organic Compounds and Air-phase Petroleum Hydrocarbons in Ambient Air, October 6, 2025, Rocky Top Environmental Limited Purpose Landfill

Analyte	Units	Air Method B Noncancer	Air Method B Cancer	AMB-1	AMB-6	AMB-11	AMB-13	AMB-25 (AMB-13 Dup)	AMB-16
Volatile Organic Compounds (cont.)									
trans-1,2-Dichloroethene	µg/m³	18		0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
trans-1,3-Dichloropropene	µg/m³	9.1	0.63	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Trichloroethene	µg/m³	0.91	0.33	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Trichlorofluoromethane	µg/m³	320		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl acetate	µg/m³	91		8.5 U	8.5 U	8.5 U	8.5 U	8.5 U	8.5 U
Vinyl bromide	µg/m³	1.4	0.17	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U
Vinyl chloride	µg/m³	46	0.28	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Notes

APH = Air-phase hydrocarbons analyzed by Method MA-APH
MA-APH = Massachusetts Air-Phase Petroleum Hydrocarbons
VOCS = Volatile organic compounds analyzed by Method TO-15
-- = Not analyzed
FP = False positive; suspected canister contamination and ambient air conditions
J = Estimated value
U = Not detected above laboratory reporting limit

Attachment A

Ecology Variance

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Central Region Office
1250 West Alder St., Union Gap, WA 98903-0009 • 509-575-2490

March 5, 2025

DTG Recycling
41 Rocky Top Road
Yakima, WA 98908

Email: mbrady@parametrix.com

Re: Variance for Nested Construction of a Resource Protection Well at 41 Rocky Top Road, Yakima, WA

Dear DTG Recycling:

This letter is in response to your request for a variance dated February 28, 2025, from the well construction standards contained in Washington Administrative Code (WAC) 173-160*, Minimum Standards for the Construction and Maintenance of Wells.*

A variance is hereby **granted** to WAC 173-160-420 (3) for the construction of a nested well for gas concentration and temperature monitoring. The variance is subject to the provisions below:

1. The variance is for the construction of a resource protection well in the following location:

   SE ¼-¼, NW ¼, Section 10, Township 13N, Range 17E, W.M.

2. The work shall be done by a licensed resource protection well driller as set forth by WAC 173-162-040.
3. **The well shall be constructed according to the construction design provided to Ecology for proposed Gas Probe and Thermistor Well.**

This variance is a waiver of the resource protection requirements detailed in WAC 173-160-420, which states:

(3) Nested resource protection wells are prohibited.

We have reviewed the well construction design information submitted and considered the variance request. A specialized well design is required to monitor temperatures in the waste zone of the historic landfill.

Considering the location within the Landfill and regulatory oversite by the Ecology Solid Waste Program, issuing of a variance to the Washington Administrative Code (WAC) 173-160, *Minimum Standards for the Construction and Maintenance of Wells* to construction of this specialized temperature monitoring well does not pose an additional health and safety risks to the public and the environment.

Contact Information

Please direct all questions about this letter to:

John Lamsma
Well Construction Coordinator
Water Resources Program
Central Region Office

Phone: (509) 268-7990
Email: john.lamsma@ecy.wa.gov

Your right to appeal

You have a right to appeal this decision to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. “Date of receipt” is defined in RCW 43.21B.001(2).

To appeal, you must do all of the following within 30 days of the date of receipt of this decision:

- File your notice of appeal and a copy of this decision with the PCHB (see filing information below). “Filing” means actual receipt by the PCHB during regular business hours as defined in WAC 371-08-305 and -335. “Notice of appeal” is defined in WAC 371-08-340.
- Serve a copy of your notice of appeal and this decision on the Department of Ecology by mail, in person, or by email (see addresses below).

You must also comply with other applicable requirements in chapter 43.21B RCW and chapter 371-08 WAC.

Filing an appeal

Filing with the PCHB

For the most current information regarding filing with the PCHB, visit: https://eluho.wa.gov/ or call: 360-664-9160.

Service on Ecology

Street Address:

Department of Ecology
Attn: Appeals Processing Desk
300 Desmond Drive SE
Lacey, WA 98503

Mailing Address:

Department of Ecology
Attn: Appeals Processing Desk
PO Box 47608
Olympia, WA 98504-7608

E-Mail Address:

ecologyappeals@ecy.wa.gov

More information

- **Pollution Control Hearings Board Website**
  https://eluho.wa.gov/
- **Chapter 43.21B RCW – Environmental Hearings Office – Pollution Control Hearings Board**
  http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B
- **Chapter 371-08 WAC – Practice And Procedure**
  http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08
- **Chapter 34.05 RCW – Administrative Procedure Act**
  http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05
- **Ecology's Laws, Rules & Rulemaking**
  https://www.ecology.wa.gov/About-us/How-we-operate/Laws-rules-rulemaking#ws

Americans with Disabilities Act information

Accommodation Requests

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-7668 or visit https://ecology.wa.gov/accessibility. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.

Signature

Sincerely,

John Lamsma
Well Construction Coordinator
Central Region Office

Sincerely,

Heather Simmons
Section Manager
Water Resources Program
Central Region Office

HS:CD:TS\250325

cc: mbrady@parametrix.com

Attachment B

Thermistor Logs, Survey Data, and Ambient Air and Gas Sampling Field Notes

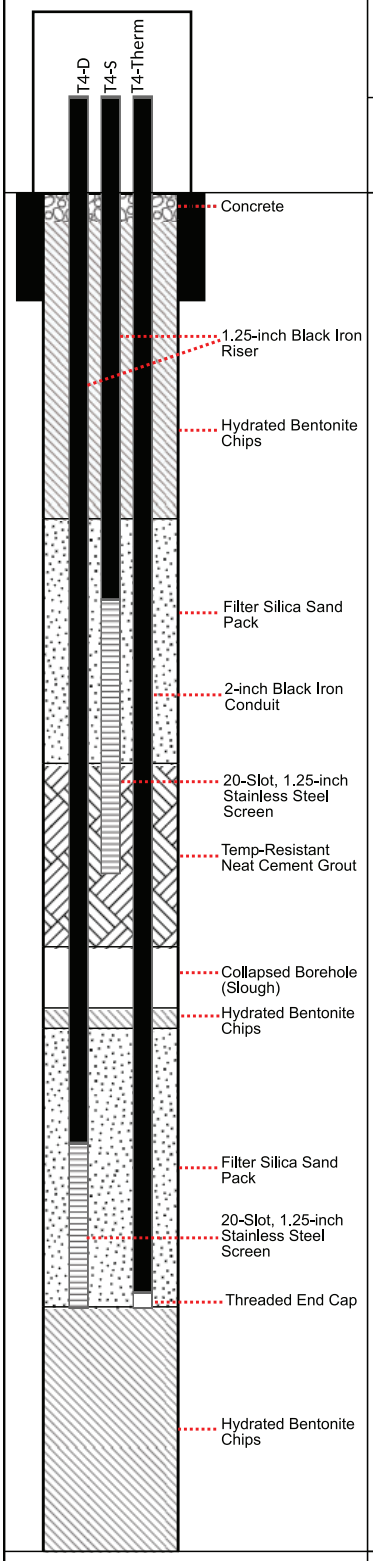
Parametrix
let's create tomorrow, together

Parametrix
719 2nd Ave #200, Seattle, WA 98104
Phone: (206) 394-3700

Thermistor/Gas Probe Log

T-4

UTM	: 10T	Drill Rig	: Boart Longyear LS600C	Job Number	: 553-8472-010
Easting (Ft)	: 1591955.94	Driller Supplier	: Gregory Drilling, Inc.	Client	: DTG Recycling
Northing (Ft)	: 472499.27	Logged By	: Chris Bourgeois	Project	: Rocky Top Environmental Limited Purpose Landfill
Ground Elevation	: 1907.37 (Ft)	Reviewed By	: Lisa Gilbert, LHG	Location	: 41 Rocky Top Rd, Yakima, WA 98908, USA
TOC Elevation	: 1910.955 (Ft)	Date	: 08/21/2025	Total Depth	: 50 Ft BGS



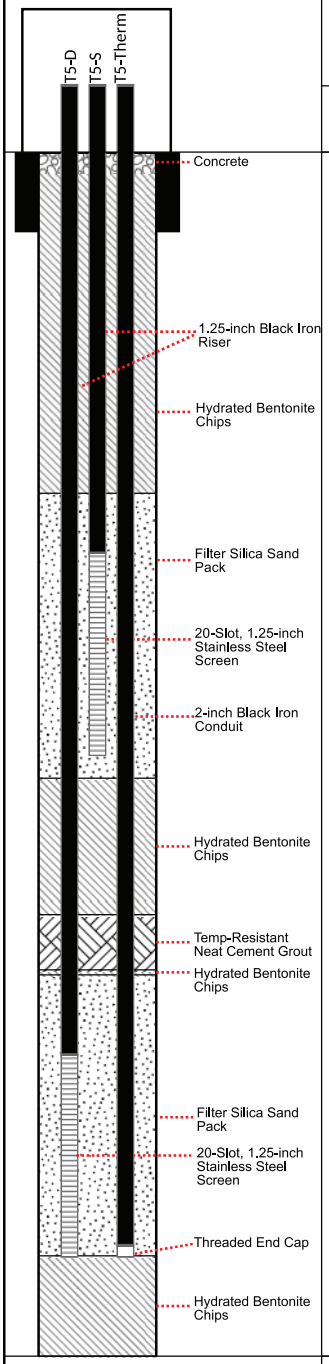
Depth (ft bgs)	PID (ppm)	Temperature (°F)	Material Description	Samples: Soil
0.0				
			FILL (Reworked local Vantage material); Brown, sandy, gravelly, silty, clay, dry.	
5.0	0.5			
		126	*As above, but moist.*	
10.0				
	0.4	160	*As above, but dry.*	
15.0			*WASTE; Poor Returns: Dark grey ash and cobbles, dry.*	
20.0				T4-20-0821
	1.8	244		
25.0				
30.0			*As above, trace metal waste.*	
35.0	1.3	220		
40.0				
45.0	1.0	151	*As above, ash becomes magenta/brown color.*	
			NATIVE BASALT; Fractured vesicular basalt and yellow/brown silt and sand, dry.	T4-48-0821
			T-4 Terminated at 50 Ft	

Parametrix
let's create tomorrow, together
Parametrix
719 2nd Ave #200, Seattle, WA 98104
Phone: (206) 394-3700

Thermistor/Gas Probe Log

T-5

UTM	: 10T	Drill Rig	: Boart Longyear LS600C	Job Number	: 553-8472-010
Easting (Ft)	: 1592202.05	Driller Supplier	: Gregory Drilling, Inc.	Client	: DTG Recycling
Northing (Ft)	: 472701.38	Logged By	: Chris Bourgeois	Project	: Rocky Top Environmental Limited Purpose Landfill
Ground Elevation	: 1936.98 (Ft)	Reviewed By	: Lisa Gilbert, LHG	Location	: 41 Rocky Top Rd, Yakima, WA 98908, USA
TOC Elevation	: 1940.364 (Ft)	Date	: 08/19/2025	Total Depth	: 60 Ft BGS



Depth (ft bgs)	PID (ppm)	Temperature (°F)	Material Description	Samples: Soil
0.0				
			FILL; Yellow/brown silt, sand and broken basalt, dry.	
5.0				
	0.9	110	*WASTE; Dark gray to black paper and wood mulch, dry. Burnt appearance.*	
10.0				
	22.5	137	*As above; but darker color and less burnt.*	
15.0				
20.0			*As above; but with plastic sheeting and cardboard.*	
	78.6	157		T5-25-019
25.0				
30.0			*As above; but with significant dark grey and brown silt, and metal.*	
	26.8	137		
35.0				
40.0				
	19.2	148		
45.0				
50.0			*As above; but with gravel and concrete.*	
	18.0	141		
55.0				
	27.9	130	*NATIVE BASALT; Pillow basalt and silt, dry.*	T5-58-0819 & T5-65-0819 (Duplicate)
			T-5 Terminated at 60 Ft	

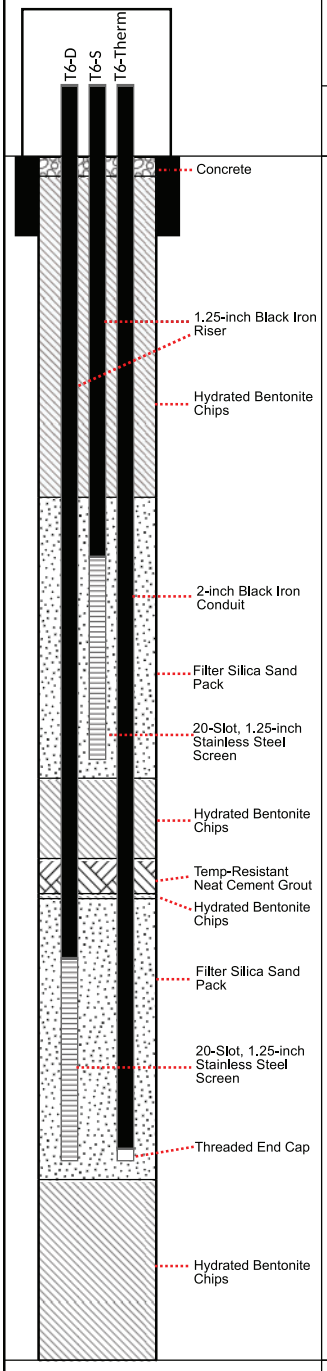
Parametrix
let's create tomorrow, together

Parametrix
719 2nd Ave #200, Seattle, WA 98104
Phone: (206) 394-3700

Thermistor/Gas Probe Log

T-6

UTM	: 10T	Drill Rig	: Boart Longyear LS600C	Job Number	: 553-8472-010
Easting (Ft)	: 1592094.50	Driller Supplier	: Gregory Drilling, Inc.	Client	: DTG Recycling
Northing (Ft)	: 472617.23	Logged By	: Chris Bourgeois	Project	: Rocky Top Environmental Limited Purpose Landfill
Ground Elevation	: 1937.78 (Ft)	Reviewed By	: Lisa Gilbert, LHG	Location	: 41 Rocky Top Rd, Yakima, WA 98908, USA
TOC Elevation	: 1941.286 (Ft)	Date	: 08/09/2025	Total Depth	: 60 Ft BGS



Depth (ft bgs)	PID (ppm)	Temperature (°F)	Material Description	Samples: Soil
0.0	6.5	75	*FILL; Brown silty sand and broken basalt, dry.*	
5.0	25.9		*WASTE; Paper and sheet plastic, dry.*	
10.0	43.8	150	*As above; but 50% dark brown and grey silt, and waste comprised of dimensional wood, thin sheet metal, and fiberglass.*	
20.0	47.2	170	*As above; but with gravel and cobbles.*	T6-20-0809
25.0	26.2			
30.0	26.3	160	*As above; but with concrete.*	
40.0	24.4	157	*As above; but with asphalt.*	
50.0	14.1		*As above; but primarily concrete.*	
55.0	4.1	154	*NATIVE BASALT; Weak, grey basalt with silt, dry.*	T6-55-0809
			T-6 Terminated at 60 Ft	

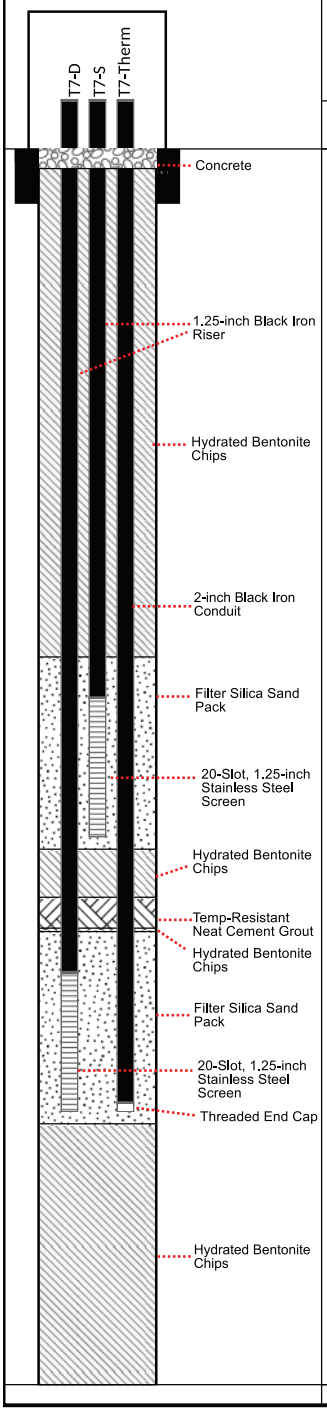
Parametrix
let's create tomorrow, together

Parametrix
719 2nd Ave #200, Seattle, WA 98104
Phone: (206) 394-3700

Thermistor/Gas Probe Log

T-7

UTM	: 10T	Drill Rig	: Boart Longyear LS600C	Job Number	: 553-8472-010
Easting (Ft)	: 1592033.53	Driller Supplier	: Gregory Drilling, Inc.	Client	: DTG Recycling
Northing (Ft)	: 472495.85	Logged By	: Sally Nguyen	Project	: Rocky Top Environmental Limited Purpose Landfill
Ground Elevation	: 1938.85 (Ft)	Reviewed By	: Lisa Gilbert, LHG	Location	: 41 Rocky Top Rd, Yakima, WA 98908, USA
TOC Elevation	: 1942.438 (Ft)	Date	: 07/25/2025	Total Depth	: 90 Ft BGS



Depth (ft bgs)	PID (ppm)	Temperature (°F)	Material Description	Samples: Soil
0.0				
5.0	0.1	86.3	*FILL; Brown silty sand with broken basalt.*	
10.0			*As above, but moist.*	
15.0	24.5	98	*WASTE; Brown/black decomposing wood with some plastic and fill soil, dry. Driller notes softer drilling.*	
20.0				
25.0	6.7	128		
30.0			*As above; with brick and carpet.*	
35.0	35.6	135		
40.0			*As above; but becomes grey/black with tubing.*	
45.0	16.3	153		
50.0				
55.0	9.5	130		
60.0				
65.0	63.8	169		
70.0			*As above; but mostly plastics.*	
			As above; but mostly wood with some plastic and broken basalt.	T7-70-0725
75.0	1.8	168	*NATIVE BASALT; Weathered and broken brown/black basalt with sediment, dry.*	
80.0				T7-80-0725
85.0	0.8	173		
			T-7 Terminated at 90 Ft	

Survey Data, Gas Probes and Thermistors, Rocky Top Environmental LPL

DESCRIPTION	NORTHING	EASTING	Elevation (ft)	Ground Elevation (ft)
GP-1	472887.525	1592189.387	1897.215	1895.5985
GP-2	472812.505	1592119.887	1898.421	1895.743
GP-3	472728.651	1592016.415	1902.347	1897.883
GP-4	472615.88	1591941.64	1897.239	1893.9655
GP-5	472831.018	1592217.37	1918.555	1916.062
GP-6	472738.576	1592116.769	1918.685	1916.1375
GP-7	472692.454	1592050.765	1919.609	1916.7335
GP-8	472572.284	1591981.842	1914.166	1912.0975
GP-9	472787.487	1591932.247	1853.747	1851.734
GP-10	472667.237	1592437.145	2006.013	2004.928
GP-11	472857.995	1592163.125	1898.373	1895.477
GP-12	472779.738	1592074.783	1900.352	1896.7225
GP-13	472721.599	1591976.087	1893.5	1888.4845
GP-14	472666.89	1591964.51	1899.778	1895.922
GP-15	472877.868	1592261.067	1917.989	1915.458
GP-16	472775.36	1592173.688	1921.489	1918.2195
GP-17	472724.372	1592091.627	1918.32	1916.5
GP-18	472655.587	1592025.179	1919.264	1916.302
GP-19	472604.661	1591993.405	1916.485	1912.626
GP-20	472510.97	1591969.278	1913.091	1910.0185
GP-21	472734.029	1592199.118	1932.776	1930.501
GP-22	472681.277	1592122.295	1934.74	1932.19
GP-23	472631.99	1592062.084	1934.352	1932.121
GP-24	472424.713	1591994.103	1936.556	1933.82
GP-25	472455.133	1591950.946	1916.483	1914.0935
GP-26	472919.772	1592205.649	1894.934	1891.8355
GP-30	472387.938	1591943.989	1919.981	1918.396
T-1	472759.376	1592048.756	1900.948	1897.243
T-2	472843.055	1592148.694	1898.445	1895.3465
T-3	472676.731	1592034.274	1919.447	1916.17
T-4	472499.273	1591955.944	1910.955	1907.36475
T-5	472701.382	1592202.05	1940.364	1936.98175
T-6	472617.229	1592094.497	1941.286	1937.7785
T-7	472495.854	1592033.53	1942.438	1938.85525

DTG Debris to Green Recycling

Sample Location ID: AMB-1

AMBIENT AIR FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: MPB (1 HR ↓)	**Date(s):** 10/6/2025
Air Temperature: 55-70° AQI 17-60-40	**Weather:** SUNNY **Pressure Gradient:** ↓

Summa Canister Sampling (MA-APH, TO-15, Major Gases)

Canister ID: 18580	**Regulator ID:** 15210
Start Time: 820	**Stop Time:** 1431
Initial Pressure: -29.5	**Final Pressure:** -10

High Volume PUF Sampling (TO-9A, TO-13A)

Sample ID:	**Flow Rate:**
Start Date/Time:	**Stop Date/Time:**
Sampler Type (s):	

Draeger Readings

Date / Time	CH_4 (%)	CO (ppm)	CO_2 (%)	O_2 (%)	H_2S (ppm)
10/6 820	0	0	—	20.5	0
10/6 1430	0	0	—	20.7	0.4

MultiRAE / MiniRAE Readings

Date / Time	% LEL	CO (ppm)	VOC's (ppm)	O_2 (%)	H_2S (ppm)
10/6 820	0	0	0	20.9	0
1430	0	0	0	20.9	0

Notes: SMOKE FROM VALLEY 11:00 - 1200 (AQI UP TO 70) WORSE AT AMB-1

Signature: MPBR

DTG Debris to Green Recycling

Sample Location ID: AMB-6

AMBIENT AIR FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: MPB	**Date(s):** 10/6/2025
Air Temperature: 55-70 AQI 17 60-40	**Weather:** SUNNY **Pressure Gradient:** ↓

Summa Canister Sampling (MA-APH, TO-15, Major Gases)

Canister ID: 18565	**Regulator ID:** 20480
Start Time: 8:39	**Stop Time:** 1446
Initial Pressure: -30	**Final Pressure:** -13

High Volume PUF Sampling (TO-9A, TO-13A)

Sample ID:	**Flow Rate:**
Start Date/Time:	**Stop Date/Time:**
Sampler Type (s):	

Draeger Readings

Date / Time	CH_4 (%)	CO (ppm)	CO_2 (%)	O_2 (%)	H_2S (ppm)	H_2
10/6 835	0	0	—	20.4	0	0
	0	0	—	20~~.27~~ 8	0.3	0

MultiRAE / MiniRAE Readings

Date / Time	% LEL	CO (ppm)	VOC's (ppm)	O_2 (%)	H_2S (ppm)
10/6 835	0	0	0	20.9	0
	0		0	20.9	0

Notes: SOME SMOKE FROM 11-12, NOT MUCH COMPARED TO AMB-1

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: AMB-11

AMBIENT AIR FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: MPB	**Date(s):** 10/6/2025
Air Temperature: 55-70° AQI 17-40	**Weather:** SUNNY **Pressure Gradient:**

Summa Canister Sampling (MA-APH, TO-15, Major Gases)

Canister ID: 35339	**Regulator ID:** 15216
Start Time: 906	**Stop Time:** 1509
Initial Pressure: -29	**Final Pressure:** -9

High Volume PUF Sampling (TO-9A, TO-13A)

Sample ID:	**Flow Rate:**
Start Date/Time:	**Stop Date/Time:**
Sampler Type (s):	

Draeger Readings

Date / Time	CH_4 (%)	CO (ppm)	CO_2 (%)	O_2 (%)	H_2S (ppm)
10/6 905	0	0	—	20.4	0.1 H_2 002
10/6 1505	0	0	—	20.7	0.4 002

MultiRAE / MiniRAE Readings

Date / Time	% LEL	CO (ppm)	VOC's (ppm)	O_2 (%)	H_2S (ppm)
10/6 905	0	0	0	20.9	0
10/6 1505	0	0	0	20.9	0

Notes: MINOR SMOKE 11-12 NOT MUCH

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: AMB-13
AMB-25 (DUP)

AMBIENT AIR FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPB	Date(s): 10/6/2025
Air Temperature: 55-70	Weather: Sunny ☀ / Pressure Gradient: ↓

Summa Canister Sampling (MA-APH, TO-15, Major Gases)

	AMB-13	DUP		AMB-13	DUP
Canister ID:	4088	32099	Regulator ID:	15213	15208
Start Time:	850	900	Stop Time:	1456	1500
Initial Pressure:	-28	-29	Final Pressure:	-10	-9

High Volume PUF Sampling (TO-9A, TO-13A)

Sample ID:	Flow Rate:
Start Date/Time:	Stop Date/Time:
Sampler Type (s):	

Draeger Readings

Date / Time	CH_4 (%)	CO (ppm)	CO_2 (%)	O_2 (%)	H_2S (ppm)
10/6 848	0	0	—	20.4	0.1 (for H_2 0.02)
10/6 1455	0	0	—	20.7	0.5 (0.02)

MultiRAE / MiniRAE Readings

Date / Time	% LEL	CO (ppm)	VOC's (ppm)	O_2 (%)	H_2S (ppm)
10/6 848	0	0	0	20.7	0
10/6 1455	0	0	0	20.9	0

Notes: DUP COLLECTED ADJACENT
MINOR SMOKE 11-12 OTHERWISE CLEAR
SLIGHT H_2S ODOR IN AM

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: AMB-16

AMBIENT AIR FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPR	Date(s): 10/6/2025
Air Temperature: 35-70 AQI 17-60-40	Weather: SUNNY / Pressure Gradient: ↓

Summa Canister Sampling (MA-APH, TO-15, Major Gases)

Canister ID: 37224	Regulator ID: 20458
Start Time: 834	Stop Time: 1441
Initial Pressure: -29	Final Pressure: -8

High Volume PUF Sampling (TO-9A, TO-13A)

Sample ID:	Flow Rate:
Start Date/Time:	Stop Date/Time:
Sampler Type (s):	

Draeger Readings

Date / Time	CH_4 (%)	CO (ppm)	CO_2 (%)	O_2 (%)	H_2S (ppm)	
10/6 830	0	0	–	20.4	0	0
10/6 1441	0	0	✓	20.7	0.3	0

MultiRAE / MiniRAE Readings

Date / Time	% LEL	CO (ppm)	VOC's (ppm)	O_2 (%)	H_2S (ppm)
10/6 830	0	0	0	20.9	0
10/6 1441	0	0	0	20.9	0

Notes: SOME SMOKE FROM 11-12 MOSTLY CLEAR

Signature: [signature]

DTG Debris to Green Recycling

Sample Location ID: GP-2

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPB	Date(s): 10/6/2025
Air Temperature: 63° AQI 50-70	Weather: SUNNY
Depth of Probe 20	Static Pressure: — Barometric Pressure: 30.24
Screened Interval: 10-20	Probe Condition: Good
Purge Volume: 14000 mL	Purge Time: 28 x 500mL syringe

Summa Canister Sampling

Canister ID: 8394	Regulator ID: 280
Start Time: 1139	Stop Time: 1145
Initial Pressure: -28	Final Pressure: -4

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6 1137	0	35	—	18.5	0.5
				H_2O	

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6 1137	0	109	0	18.5	5.1

Notes: Major GASES SN 9900 ID54

1145 -28.5 1151 -4

Signature:

DTG Debris to Green Recycling

Sample Location ID: GP-3

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPB	Date(s): 10/6/2025
Air Temperature: 60° AQI 17	Weather: Sunny
Depth of Probe 20	Static Pressure: Barometric Pressure: 30.25
Screened Interval: 10-20	Probe Condition: Good
Purge Volume: 14000 mL	Purge Time: 28 x 500 mL

Summa Canister Sampling

Canister ID: 4175	Regulator ID: 06
Start Time: 1059	Stop Time: 1104
Initial Pressure: -28	Final Pressure: -4

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6	0.1	105	—	18.1	0.5

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
	0	130	0	18.6	14

Notes: MAJOR GASES
SN 9562 ID91
1106 -27.5 1111 -4

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: GP-20

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: MB / AML	Date(s): 10/6/25
Air Temperature: 53°F	Weather: Sunny
Depth of Probe 15	Static Pressure: Barometric Pressure: 30.20
Screened Interval: 10-20	Probe Condition: Good
Purge Volume: 1500 mL 0.54 ft3	Purge Time: 1019

Summa Canister Sampling

Canister ID: 3312	Regulator ID: 01
Start Time: 1035	Stop Time: 1041
Initial Pressure: -28	Final Pressure: -4.0

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1024	0.4	0.4	-	0.5	1.1

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1024	17	449	96	25	99.9

Notes: MAJOR GASES SN 3675 REG 11

Signature:

Major Gases Can ID: 3675 Reg: 111
Start: 1042 Stop: 1048
IP: 28 FP: -4.0

DTG Debris to Green Recycling

Sample Location ID: T3

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: AML / MB	Date(s): 10/6/25
Air Temperature: 56°F	Weather: Sunny
Depth of Probe 49	Static Pressure: Barometric Pressure: 30.20
Screened Interval: 39-49	Probe Condition: Good
Purge Volume: 0439 ft3 12422 mL	Purge Time: 1055

Summa Canister Sampling

Canister ID: 3664	Regulator ID: 18
Start Time: 1103	Stop Time: 1113
Initial Pressure: -29.0	Final Pressure: -4.0

VOCs APH

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1059	0.4	6300	-	0.6	1.6

H2 0.42

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1100	18	499	196	2.4	99.9

Notes:

Signature:

Major Gas

Canister: 8211
Start: 1114
IP: -30.0

Regulator 31
Stop: 1121
FP: -4.0

DTG Debris to Green Recycling

Sample Location ID: T-4-shallow 13-3

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MB / AML	Date(s): 10/6/25
Air Temperature: 50° F	Weather: Sunny
Depth of Probe 25 ft	Static Pressure: Barometric Pressure: 30.21 ↓
Screened Interval: 15-25	Probe Condition: Good
Purge Volume: 13.3 mL/min 0.234 ft³ 6633	Purge Time: 920

Summa Canister Sampling

VOCs + APH

Canister ID: 4181	Regulator ID: ID#77
Start Time: 930	Stop Time: 935
Initial Pressure: -28.5	Final Pressure: -4.0

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 0920	0.1	1650	1640	~~X.0~~.8	6.3

H_2 0.6

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 0920	0,0	500	30	5,4	100

Notes:

Signature:

Major Cases

Canister 8346
Start Time 937
Initial P -28,0

Regulator 307
Stop Time 942
Final P -4.0

DTG Debris to Green Recycling

Sample Location ID: T-4-D

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: AML / MB	**Date(s):** 10/6/25
Air Temperature: 51°F	**Weather:** Sunny
Depth of Probe 41 ft bgs	**Static Pressure:** **Barometric Pressure:**
Screened Interval: 35-41	**Probe Condition:** Good
Purge Volume: 0.371 ft³ / 10492 mL	**Purge Time:** 0945 hr

Summa Canister Sampling

Canister ID: 8255	**Regulator ID:** 95
Start Time: 0953	**Stop Time:** 0958
Initial Pressure: -28.0	**Final Pressure:** -4.0

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6 948	0.0	60	~~60~~	18.3	0.4
				H_2	0.02

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 948	0	50	71	18.8	11.0

Notes:

Signature: A

Major Gases

Can: 9563
ST: 1000
IP: -29.0

Reg ID: 243
Stop T: 1006
FP: -4.0

DTG Debris to Green Recycling

Sample Location ID: T-5S

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: AML / MB	**Date(s):** 11/6/25
Air Temperature: 57°F	**Weather:** Sunny
Depth of Probe 30 ft	**Static Pressure:** **Barometric Pressure:** 30.20
Screened Interval: 20-30	**Probe Condition:** Good
Purge Volume: 0.277 ~~ft³~~ 7839 mL	**Purge Time:** 1135

Summa Canister Sampling

Canister ID: 9564	**Regulator ID:** 97
Start Time: 1147	**Stop Time:** 1152
Initial Pressure: -27.5	**Final Pressure:** -4.0

VOCs

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
11/6/25 1138	1.5	770	—	0.5	99.0

H_2 0.14

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
11/6/25 1139	16	499	246	2.4	99.9

Notes:

Signature:

Major Gases

Can	9988	Reg	255
Start	1153	Stop	1159
IP	28.0	FP	-4.0

DTG Debris to Green Recycling

Sample Location ID: TSD

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MB / AML	Date(s): 10/6/25
Air Temperature: 60°F	Weather: Sunny
Depth of Probe 55	Static Pressure: Barometric Pressure: 30.20↓
Screened Interval: 45-55	Probe Condition: Good
Purge Volume: 0.490 ft³ 13869mL	Purge Time: 1204

Summa Canister Sampling

Canister ID: 8098	Regulator ID: 61
Start Time: 1212	Stop Time: 1216
Initial Pressure: -27.0	Final Pressure: -4.0

VOC's

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1209	2.3	410	—	0.8	~~0.06~~
					30.8

H₂ 0.06

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1209	19	499	143	2.4	~~143~~
					99.9

Notes:

Signature:

Major Can 9568 Reg 73
Start 1218 Stop 1223
IP -26.0 FP -4.0

DTG Debris to Green Recycling

Sample Location ID: T6S

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPB	Date(s): 10/6/2025
Air Temperature: 67° AQI <50	Weather: SUNNY
Depth of Probe 30	Static Pressure: — Barometric Pressure: 30.22
Screened Interval: 20-30	Probe Condition: GOOD
Purge Volume: 7839 mL	Purge Time: 15 X 500mL

Summa Canister Sampling

Canister ID: 8210	Regulator ID: 25
Start Time: 1231	Stop Time: 1237
Initial Pressure: -28.5	Final Pressure: -4

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6 1227	1.2	6150		0.4	TM

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
	19	500+	589	2.4	100+

Notes: Major Gases
SN 9882 ID 259
1257 -30 1244 -4

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: T6D

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: MPB	Date(s): 10/6/2025
Air Temperature: 67° AQI < 50	Weather: SUNNY
Depth of Probe 50	Static Pressure: Barometric Pressure: 30.22
Screened Interval: 40-50	Probe Condition:
Purge Volume: 13000 mL	Purge Time: 26 x 500mL

Summa Canister Sampling

Canister ID: 9565	Regulator ID: 05
Start Time: 1249	Stop Time: 1254
Initial Pressure: -28.5	Final Pressure: -4

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
	1.5	7700	—	0.5	11.7
				H_2	0.78

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
	19	500+	1,000+	2.8	100+

Notes: Major Gases SN 8532 1D67
1255 - 28.5 1300 -4

Signature: MPB

DTG Debris to Green Recycling

Sample Location ID: T7S

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address: 41 Rocky Top Road Yakima, WA**
Sampled by: AML / MB	Date(s): 10/6/25
Air Temperature: 62°F	Weather: Sunny
Depth of Probe: 50 ft bgs	Static Pressure: / Barometric Pressure: 30.18
Screened Interval: 40-50	Probe Condition: good
Purge Volume: 0.447 ft³ 12663 mL	Purge Time: 1250

Summa Canister Sampling

Canister ID: 4185	Regulator ID: 93
Start Time: 1302	Stop Time: 1308
Initial Pressure: -29.0	Final Pressure: -4.0

VOCs

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1253	0.9	6200	—	0.5	19.2

H_2 0.6

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1055	19	499.9	521	3.8	99.9

Notes:

Signature:

Major

Can 3677 Reg 69

Start 1309 Stop 1314

IP 27.5 FP -4.0

DTG Debris to Green Recycling

Sample Location ID: I7D

GAS PROBE FIELD SAMPLING SHEET

Project Name: DTG / Anderson LPL	**Site Address:** 41 Rocky Top Road Yakima, WA
Sampled by: AML / MB	Date(s): 10/6/25
Air Temperature: 64°F	Weather:
Depth of Probe 70	Static Pressure: Barometric Pressure: 30.18
Screened Interval: 60-70	Probe Condition: Good
Purge Volume: 0.618 ft³ 17487 mL	Purge Time: 1314

Summa Canister Sampling

Canister ID: 3666	Regulator ID: 242
Start Time: 1324	Stop Time: 1339
Initial Pressure: -27.5	Final Pressure: -4.0

VOCs

Draeger Readings

Date / Time	Methane (%)	Carbon Monoxide (ppm)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1319	4.6	785	—	0.4	5.4

H_2

MultiRAE / MiniRAE Readings

Date / Time	% LEL	Carbon Monoxide (ppm)	VOC's (ppm)	Oxygen (%)	Hydrogen Sulfide (ppm)
10/6/25 1322	79	499	64	99.11	99.9
				3.8	99.9

Notes:

Signature:

Major

Can: 3671
Start 13.32
ID 27.5

Reg: 21
Stop 1338
FP: -4

Attachment C

Laboratory Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Ann Webber-Bruya
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October 22, 2025

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 October 7, 2025 from the Rocky Top Environmental RI 553-8472-010, F&BI 510109 project. There are 53 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.

Michael Erdahl
Project Manager

Enclosures
PMX1022R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 7, 2025 by Friedman & Bruya, Inc. from the Parametrix Rocky Top Environmental RI 553-8472-010, F&BI 510109 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Parametrix
510109 -01	AMB-1
510109 -02	AMB-6
510109 -03	AMB-11
510109 -04	AMB-13
510109 -05	AMB-16
510109 -06	AMB-25
510109 -07	GP-2
510109 -08	GP-2
510109 -09	GP-3
510109 -10	GP-3
510109 -11	GP-20
510109 -12	GP-20
510109 -13	T3
510109 -14	T3
510109 -15	T4S
510109 -16	T4S
510109 -17	T4D
510109 -18	T4D
510109 -19	T5S
510109 -20	T5S
510109 -21	T5D
510109 -22	T5D
510109 -23	T6S
510109 -24	T6S
510109 -25	T6D
510109 -26	T6D
510109 -27	T7S
510109 -28	T7S
510109 -29	T7D
510109 -30	T7D

The samples for major gases testing were sent to Alliance Technical Group. The report is enclosed.

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

CASE NARRATIVE (continued)

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

The TO-15 calibration standard for 4-methyl-2-pentanone exceeded the acceptance criteria for the soil gas samples. The compound was not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier.

All other quality control requirements were acceptable.

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-1	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-01 1/1.2
Date Analyzed:	10/07/25	Data File:	100713.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-6	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-02 1/1.2
Date Analyzed:	10/07/25	Data File:	100715.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-11	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-03 1/1.2
Date Analyzed:	10/07/25	Data File:	100716.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-13	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-04 1/1.2
Date Analyzed:	10/07/25	Data File:	100717.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-16	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-05 1/1.2
Date Analyzed:	10/07/25	Data File:	100718.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	AMB-25	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-06 1/1.2
Date Analyzed:	10/07/25	Data File:	100719.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<90
APH EC9-12 aliphatics	<30
APH EC9-10 aromatics	<30

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	GP-2	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-07 1/16
Date Analyzed:	10/14/25	Data File:	101415.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	1,300
APH EC9-12 aliphatics	<400
APH EC9-10 aromatics	<400

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	GP-3	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-09 1/5.7
Date Analyzed:	10/14/25	Data File:	101413.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<430
APH EC9-12 aliphatics	<140
APH EC9-10 aromatics	<140

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	GP-20	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-11 1/1100
Date Analyzed:	10/14/25	Data File:	101420.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	83,000
APH EC9-12 aliphatics	<27,000
APH EC9-10 aromatics	<27,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T3	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-13 1/1000
Date Analyzed:	10/14/25	Data File:	101421.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	100,000
APH EC9-12 aliphatics	<25,000
APH EC9-10 aromatics	<25,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T4S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-15 1/240
Date Analyzed:	10/14/25	Data File:	101416.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	19,000
APH EC9-12 aliphatics	<6,000
APH EC9-10 aromatics	<6,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T4D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-17 1/200
Date Analyzed:	10/14/25	Data File:	101417.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	21,000
APH EC9-12 aliphatics	16,000
APH EC9-10 aromatics	<5,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T5S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-19 1/2100
Date Analyzed:	10/14/25	Data File:	101422.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	100	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	330,000
APH EC9-12 aliphatics	210,000
APH EC9-10 aromatics	<52,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T5D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-21 1/2100
Date Analyzed:	10/14/25	Data File:	101423.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	350,000
APH EC9-12 aliphatics	220,000
APH EC9-10 aromatics	100,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T6S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-23 1/15000
Date Analyzed:	10/15/25	Data File:	101425.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<1,100,000
APH EC9-12 aliphatics	<370,000
APH EC9-10 aromatics	<370,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T6D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-25 1/30000
Date Analyzed:	10/15/25	Data File:	101426.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<2,300,000
APH EC9-12 aliphatics	<750,000
APH EC9-10 aromatics	<750,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T7S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-27 1/15000
Date Analyzed:	10/14/25	Data File:	101424.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<1,100,000
APH EC9-12 aliphatics	<370,000
APH EC9-10 aromatics	<370,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	T7D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-29 1/500
Date Analyzed:	10/14/25	Data File:	101419.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	98	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	280,000
APH EC9-12 aliphatics	250,000
APH EC9-10 aromatics	210,000

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Parametrix
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Collected:	Not Applicable	Lab ID:	05-2582 mb
Date Analyzed:	10/14/25	Data File:	101412.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	Parametrix
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Collected:	Not Applicable	Lab ID:	05-2480 mb
Date Analyzed:	10/07/25	Data File:	100712.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-1	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-01 1/1.2
Date Analyzed:	10/07/25	Data File:	100713.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<1.7	<0.96	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	2.6	0.52	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.61	0.27	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	<7.1	<3	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.49	0.078	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.1	0.36	Naphthalene	0.20	0.037
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-6	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-02 1/1.2
Date Analyzed:	10/07/25	Data File:	100715.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	1.8	1.0	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	2.5	0.51	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.62	0.27	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	19	8.0	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.46	0.073	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.1	0.33	Naphthalene	0.33	0.062
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-11	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-03 1/1.2
Date Analyzed:	10/07/25	Data File:	100716.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<1.7	<0.96	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	1.9	0.38	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.55	0.24	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	<7.1	<3	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.48	0.076	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.1	0.33	Naphthalene	0.15	0.029
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-13	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-04 1/1.2
Date Analyzed:	10/07/25	Data File:	100717.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<1.7	<0.96	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	2.0	0.41	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.48	0.21	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	<7.1	<3	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.45	0.072	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.2	0.39	Naphthalene	0.065 j	0.012 j
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-16	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-05 1/1.2
Date Analyzed:	10/07/25	Data File:	100718.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.7	<0.96	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	2.7	0.54	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.53	0.23	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	24	10	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.48	0.076	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.0	0.32	Naphthalene	0.27	0.052
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AMB-25	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-06 1/1.2
Date Analyzed:	10/07/25	Data File:	100719.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	1.7	0.97	1,2-Dichloropropane	<0.28	<0.06
Dichlorodifluoromethane	2.2	0.45	1,4-Dioxane	<0.43	<0.12
Chloromethane	<4.5	<2.2	2,2,4-Trimethylpentane	<5.6	<1.2
F-114	<2.5	<0.36	Methyl methacrylate	<4.9	<1.2
Vinyl chloride	<0.15	<0.06	Heptane	<4.9	<1.2
1,3-Butadiene	<0.053	<0.024	Bromodichloromethane	<0.08	<0.012
Butane	<5.7	<2.4	Trichloroethene	<0.13	<0.024
Bromomethane	<4.7	<1.2	cis-1,3-Dichloropropene	<1.1	<0.24
Chloroethane	<3.2	<1.2	4-Methyl-2-pentanone	<9.8	<2.4
Vinyl bromide	<0.52	<0.12	trans-1,3-Dichloropropene	<0.54	<0.12
Ethanol	<23	<12	Toluene	<9	<2.4
Acrolein	0.56	0.24	1,1,2-Trichloroethane	<0.065	<0.012
Pentane	<7.1	<2.4	2-Hexanone	<4.9	<1.2
Trichlorofluoromethane	<2.7	<0.48	Tetrachloroethene	<8.1	<1.2
Acetone	8.6	3.6	Dibromochloromethane	<0.1	<0.012
2-Propanol	<10	<4.2	1,2-Dibromoethane (EDB)	<0.092	<0.012
1,1-Dichloroethene	<0.48	<0.12	Chlorobenzene	<0.55	<0.12
trans-1,2-Dichloroethene	<0.48	<0.12	Ethylbenzene	<0.52	<0.12
Methylene chloride	<42	<12	1,1,2,2-Tetrachloroethane	<0.16	<0.024
t-Butyl alcohol (TBA)	<15	<4.8	Nonane	<6.3	<1.2
3-Chloropropene	<3.8	<1.2	Isopropylbenzene	<12	<2.4
CFC-113	<1.8	<0.24	2-Chlorotoluene	<6.2	<1.2
Carbon disulfide	<7.5	<2.4	Propylbenzene	<5.9	<1.2
Methyl t-butyl ether (MTBE)	<8.7	<2.4	4-Ethyltoluene	<5.9	<1.2
Vinyl acetate	<8.5	<2.4	m,p-Xylene	<1	<0.24
1,1-Dichloroethane	<0.49	<0.12	o-Xylene	<0.52	<0.12
cis-1,2-Dichloroethene	<0.48	<0.12	Styrene	<1	<0.24
Hexane	<4.2	<1.2	Bromoform	<2.5	<0.24
Chloroform	<0.059	<0.012	Benzyl chloride	<0.062	<0.012
Ethyl acetate	<8.6	<2.4	1,3,5-Trimethylbenzene	<5.9	<1.2
Tetrahydrofuran	<1.1	<0.36	1,2,4-Trimethylbenzene	<5.9	<1.2
2-Butanone (MEK)	<7.1	<2.4	1,3-Dichlorobenzene	<0.72	<0.12
1,2-Dichloroethane (EDC)	<0.049	<0.012	1,4-Dichlorobenzene	<0.27	<0.046
1,1,1-Trichloroethane	<0.65	<0.12	1,2-Dichlorobenzene	<0.72	<0.12
Carbon tetrachloride	0.47	0.074	1,2,4-Trichlorobenzene	<0.89	<0.12
Benzene	1.3	0.40	Naphthalene	0.16	0.031
Cyclohexane	<8.3	<2.4	Hexachlorobutadiene	<0.26	<0.024

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	GP-2	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-07 1/16
Date Analyzed:	10/14/25	Data File:	101415.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	250	150	1,2-Dichloropropane	6.6	1.4
Dichlorodifluoromethane	23	4.6	1,4-Dioxane	<5.8	<1.6
Chloromethane	130	64	2,2,4-Trimethylpentane	<75	<16
F-114	<34	<4.8	Methyl methacrylate	<66	<16
Vinyl chloride	<2	<0.8	Heptane	<66	<16
1,3-Butadiene	<0.71	<0.32	Bromodichloromethane	10	1.6
Butane	460	190	Trichloroethene	<1.7	<0.32
Bromomethane	<62	<16	cis-1,3-Dichloropropene	<15	<3.2
Chloroethane	<42	<16	4-Methyl-2-pentanone	<130 k	<32 k
Vinyl bromide	<7	<1.6	trans-1,3-Dichloropropene	<7.3	<1.6
Ethanol	<300	<160	Toluene	<120	<32
Acrolein	<1.8	<0.8	1,1,2-Trichloroethane	<0.87	<0.16
Pentane	380	130	2-Hexanone	<66	<16
Trichlorofluoromethane	<36	<6.4	Tetrachloroethene	<110	<16
Acetone	<95	<40	Dibromochloromethane	4.4	0.51
2-Propanol	<140	<56	1,2-Dibromoethane (EDB)	<1.2	<0.16
1,1-Dichloroethene	24	6.0	Chlorobenzene	14	3.0
trans-1,2-Dichloroethene	<6.3	<1.6	Ethylbenzene	<6.9	<1.6
Methylene chloride	<560	<160	1,1,2,2-Tetrachloroethane	<2.2	<0.32
t-Butyl alcohol (TBA)	<190	<64	Nonane	<84	<16
3-Chloropropene	<50	<16	Isopropylbenzene	<160	<32
CFC-113	<25	<3.2	2-Chlorotoluene	<83	<16
Carbon disulfide	<100	<32	Propylbenzene	<79	<16
Methyl t-butyl ether (MTBE)	<120	<32	4-Ethyltoluene	<79	<16
Vinyl acetate	<110	<32	m,p-Xylene	<14	<3.2
1,1-Dichloroethane	<6.5	<1.6	o-Xylene	<6.9	<1.6
cis-1,2-Dichloroethene	<6.3	<1.6	Styrene	<14	<3.2
Hexane	160	46	Bromoform	<33	<3.2
Chloroform	100	21	Benzyl chloride	<0.83	<0.16
Ethyl acetate	<120	<32	1,3,5-Trimethylbenzene	<79	<16
Tetrahydrofuran	<14	<4.8	1,2,4-Trimethylbenzene	<79	<16
2-Butanone (MEK)	<94	<32	1,3-Dichlorobenzene	<9.6	<1.6
1,2-Dichloroethane (EDC)	24	6.0	1,4-Dichlorobenzene	<3.7	<0.61
1,1,1-Trichloroethane	<8.7	<1.6	1,2-Dichlorobenzene	<9.6	<1.6
Carbon tetrachloride	<5	<0.8	1,2,4-Trichlorobenzene	<12	<1.6
Benzene	1,700 ve	530 ve	Naphthalene	<4.2	<0.8
Cyclohexane	<110	<32	Hexachlorobutadiene	<3.4	<0.32

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	GP-3	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-09 1/5.7
Date Analyzed:	10/14/25	Data File:	101413.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<7.8	<4.6	1,2-Dichloropropane	<1.3	<0.28
Dichlorodifluoromethane	<5.6	<1.1	1,4-Dioxane	<2.1	<0.57
Chloromethane	<21	<10	2,2,4-Trimethylpentane	<27	<5.7
F-114	<12	<1.7	Methyl methacrylate	<23	<5.7
Vinyl chloride	<0.73	<0.28	Heptane	<23	<5.7
1,3-Butadiene	<0.25	<0.11	Bromodichloromethane	1.1	0.16
Butane	31	13	Trichloroethene	<0.61	<0.11
Bromomethane	<22	<5.7	cis-1,3-Dichloropropene	<5.2	<1.1
Chloroethane	<15	<5.7	4-Methyl-2-pentanone	<47 k	<11 k
Vinyl bromide	<2.5	<0.57	trans-1,3-Dichloropropene	<2.6	<0.57
Ethanol	<110	<57	Toluene	<43	<11
Acrolein	<0.65	<0.28	1,1,2-Trichloroethane	<0.31	<0.057
Pentane	<34	<11	2-Hexanone	<23	<5.7
Trichlorofluoromethane	15	2.7	Tetrachloroethene	<39	<5.7
Acetone	190	82	Dibromochloromethane	0.97	0.11
2-Propanol	<49	<20	1,2-Dibromoethane (EDB)	<0.44	<0.057
1,1-Dichloroethene	7.9	2.0	Chlorobenzene	<2.6	<0.57
trans-1,2-Dichloroethene	<2.3	<0.57	Ethylbenzene	<2.5	<0.57
Methylene chloride	<200	<57	1,1,2,2-Tetrachloroethane	<0.78	<0.11
t-Butyl alcohol (TBA)	<69	<23	Nonane	<30	<5.7
3-Chloropropene	<18	<5.7	Isopropylbenzene	<56	<11
CFC-113	<8.7	<1.1	2-Chlorotoluene	<30	<5.7
Carbon disulfide	<36	<11	Propylbenzene	<28	<5.7
Methyl t-butyl ether (MTBE)	<41	<11	4-Ethyltoluene	<28	<5.7
Vinyl acetate	<40	<11	m,p-Xylene	<5	<1.1
1,1-Dichloroethane	<2.3	<0.57	o-Xylene	<2.5	<0.57
cis-1,2-Dichloroethene	<2.3	<0.57	Styrene	<4.9	<1.1
Hexane	<20	<5.7	Bromoform	<12	<1.1
Chloroform	4.7	0.96	Benzyl chloride	<0.3	<0.057
Ethyl acetate	<41	<11	1,3,5-Trimethylbenzene	<28	<5.7
Tetrahydrofuran	<5	<1.7	1,2,4-Trimethylbenzene	<28	<5.7
2-Butanone (MEK)	<34	<11	1,3-Dichlorobenzene	<3.4	<0.57
1,2-Dichloroethane (EDC)	5.3	1.3	1,4-Dichlorobenzene	<1.3	<0.22
1,1,1-Trichloroethane	<3.1	<0.57	1,2-Dichlorobenzene	<3.4	<0.57
Carbon tetrachloride	<1.8	<0.28	1,2,4-Trichlorobenzene	<4.2	<0.57
Benzene	220	68	Naphthalene	<1.5	<0.28
Cyclohexane	<39	<11	Hexachlorobutadiene	<1.2	<0.11

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	GP-20	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-11 1/1100
Date Analyzed:	10/14/25	Data File:	101420.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	37,000 ve	22,000 ve	1,2-Dichloropropane	<250	<55
Dichlorodifluoromethane	<1,100	<220	1,4-Dioxane	<400	<110
Chloromethane	5,600	2,700	2,2,4-Trimethylpentane	<5,100	<1,100
F-114	<2,300	<330	Methyl methacrylate	<4,500	<1,100
Vinyl chloride	<140	<55	Heptane	<4,500	<1,100
1,3-Butadiene	<49	<22	Bromodichloromethane	<74	<11
Butane	15,000	6,300	Trichloroethene	<120	<22
Bromomethane	<4,300	<1,100	cis-1,3-Dichloropropene	<1,000	<220
Chloroethane	<2,900	<1,100	4-Methyl-2-pentanone	<9,000 k	<2,200 k
Vinyl bromide	<480	<110	trans-1,3-Dichloropropene	<500	<110
Ethanol	<21,000	<11,000	Toluene	<8,300	<2,200
Acrolein	<130	<55	1,1,2-Trichloroethane	<60	<11
Pentane	11,000	3,900	2-Hexanone	<4,500	<1,100
Trichlorofluoromethane	<2,500	<440	Tetrachloroethene	<7,500	<1,100
Acetone	39,000	16,000	Dibromochloromethane	<94	<11
2-Propanol	<9,500	<3,800	1,2-Dibromoethane (EDB)	<85	<11
1,1-Dichloroethene	<440	<110	Chlorobenzene	880	190
trans-1,2-Dichloroethene	<440	<110	Ethylbenzene	2,200 c	500 c
Methylene chloride	<38,000	<11,000	1,1,2,2-Tetrachloroethane	<150	<22
t-Butyl alcohol (TBA)	<13,000	<4,400	Nonane	<5,800	<1,100
3-Chloropropene	<3,400	<1,100	Isopropylbenzene	<11,000	<2,200
CFC-113	<1,700	<220	2-Chlorotoluene	<5,700	<1,100
Carbon disulfide	<6,900	<2,200	Propylbenzene	<5,400	<1,100
Methyl t-butyl ether (MTBE)	<7,900	<2,200	4-Ethyltoluene	<5,400	<1,100
Vinyl acetate	<7,700	<2,200	m,p-Xylene	<960	<220
1,1-Dichloroethane	<450	<110	o-Xylene	<480	<110
cis-1,2-Dichloroethene	<440	<110	Styrene	<940	<220
Hexane	5,100	1,400	Bromoform	<2,300	<220
Chloroform	<54	<11	Benzyl chloride	<57	<11
Ethyl acetate	<7,900	<2,200	1,3,5-Trimethylbenzene	<5,400	<1,100
Tetrahydrofuran	3,300	1,100	1,2,4-Trimethylbenzene	<5,400	<1,100
2-Butanone (MEK)	<6,500	<2,200	1,3-Dichlorobenzene	<660	<110
1,2-Dichloroethane (EDC)	<45	<11	1,4-Dichlorobenzene	<250	<42
1,1,1-Trichloroethane	<600	<110	1,2-Dichlorobenzene	<660	<110
Carbon tetrachloride	<350	<55	1,2,4-Trichlorobenzene	<820	<110
Benzene	70,000 ve	22,000 ve	Naphthalene	<290	<55
Cyclohexane	<7,600	<2,200	Hexachlorobutadiene	<230	<22

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T3	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-13 1/1000
Date Analyzed:	10/14/25	Data File:	101421.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	12,000	6,800	1,2-Dichloropropane	<230	<50
Dichlorodifluoromethane	<990	<200	1,4-Dioxane	6,100	1,700
Chloromethane	5,700	2,800	2,2,4-Trimethylpentane	<4,700	<1,000
F-114	<2,100	<300	Methyl methacrylate	<4,100	<1,000
Vinyl chloride	<130	<50	Heptane	<4,100	<1,000
1,3-Butadiene	<44	<20	Bromodichloromethane	<67	<10
Butane	4,800	2,000	Trichloroethene	<110	<20
Bromomethane	<3,900	<1,000	cis-1,3-Dichloropropene	<910	<200
Chloroethane	<2,600	<1,000	4-Methyl-2-pentanone	<8,200 k	<2,000 k
Vinyl bromide	<440	<100	trans-1,3-Dichloropropene	<450	<100
Ethanol	24,000	13,000	Toluene	9,000	2,400
Acrolein	<110	<50	1,1,2-Trichloroethane	<55	<10
Pentane	<5,900	<2,000	2-Hexanone	<4,100	<1,000
Trichlorofluoromethane	<2,200	<400	Tetrachloroethene	<6,800	<1,000
Acetone	110,000 ve	46,000 ve	Dibromochloromethane	<85	<10
2-Propanol	<8,600	<3,500	1,2-Dibromoethane (EDB)	<77	<10
1,1-Dichloroethene	<400	<100	Chlorobenzene	<460	<100
trans-1,2-Dichloroethene	<400	<100	Ethylbenzene	9,900	2,300
Methylene chloride	<35,000	<10,000	1,1,2,2-Tetrachloroethane	<140	<20
t-Butyl alcohol (TBA)	<12,000	<4,000	Nonane	<5,200	<1,000
3-Chloropropene	<3,100	<1,000	Isopropylbenzene	<9,800	<2,000
CFC-113	<1,500	<200	2-Chlorotoluene	<5,200	<1,000
Carbon disulfide	<6,200	<2,000	Propylbenzene	<4,900	<1,000
Methyl t-butyl ether (MTBE)	<7,200	<2,000	4-Ethyltoluene	<4,900	<1,000
Vinyl acetate	<7,000	<2,000	m,p-Xylene	2,600	590
1,1-Dichloroethane	<400	<100	o-Xylene	1,400	330
cis-1,2-Dichloroethene	<400	<100	Styrene	<850	<200
Hexane	<3,500	<1,000	Bromoform	<2,100	<200
Chloroform	<49	<10	Benzyl chloride	<52	<10
Ethyl acetate	<7,200	<2,000	1,3,5-Trimethylbenzene	<4,900	<1,000
Tetrahydrofuran	15,000	5,200	1,2,4-Trimethylbenzene	<4,900	<1,000
2-Butanone (MEK)	35,000	12,000	1,3-Dichlorobenzene	<600	<100
1,2-Dichloroethane (EDC)	<40	<10	1,4-Dichlorobenzene	<230	<38
1,1,1-Trichloroethane	<550	<100	1,2-Dichlorobenzene	<600	<100
Carbon tetrachloride	<310	<50	1,2,4-Trichlorobenzene	<740	<100
Benzene	51,000 ve	16,000 ve	Naphthalene	470	90
Cyclohexane	<6,900	<2,000	Hexachlorobutadiene	<210	<20

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T4S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-15 1/240
Date Analyzed:	10/14/25	Data File:	101416.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	96	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	9,600 ve	5,600 ve	1,2-Dichloropropane	<55	<12
Dichlorodifluoromethane	<240	<48	1,4-Dioxane	<86	<24
Chloromethane	1,300	620	2,2,4-Trimethylpentane	<1,100	<240
F-114	<500	<72	Methyl methacrylate	<980	<240
Vinyl chloride	<31	<12	Heptane	1,800	430
1,3-Butadiene	<11	<4.8	Bromodichloromethane	<16	<2.4
Butane	6,400	2,700	Trichloroethene	<26	<4.8
Bromomethane	<930	<240	cis-1,3-Dichloropropene	<220	<48
Chloroethane	<630	<240	4-Methyl-2-pentanone	<2,000 k	<480 k
Vinyl bromide	<100	<24	trans-1,3-Dichloropropene	<110	<24
Ethanol	<4,500	<2,400	Toluene	2,500	670
Acrolein	<28	<12	1,1,2-Trichloroethane	<13	<2.4
Pentane	5,000	1,700	2-Hexanone	<980	<240
Trichlorofluoromethane	<540	<96	Tetrachloroethene	<1,600	<240
Acetone	18,000 ve	7,400 ve	Dibromochloromethane	<20	<2.4
2-Propanol	3,300	1,300	1,2-Dibromoethane (EDB)	<18	<2.4
1,1-Dichloroethene	<95	<24	Chlorobenzene	580	130
trans-1,2-Dichloroethene	<95	<24	Ethylbenzene	1,800	410
Methylene chloride	<8,300	<2,400	1,1,2,2-Tetrachloroethane	<33	<4.8
t-Butyl alcohol (TBA)	<2,900	<960	Nonane	<1,300	<240
3-Chloropropene	<750	<240	Isopropylbenzene	<2,400	<480
CFC-113	<370	<48	2-Chlorotoluene	<1,200	<240
Carbon disulfide	<1,500	<480	Propylbenzene	<1,200	<240
Methyl t-butyl ether (MTBE)	<1,700	<480	4-Ethyltoluene	<1,200	<240
Vinyl acetate	<1,700	<480	m,p-Xylene	740	170
1,1-Dichloroethane	<97	<24	o-Xylene	260	60
cis-1,2-Dichloroethene	<95	<24	Styrene	<200	<48
Hexane	2,500	710	Bromoform	<500	<48
Chloroform	76	16	Benzyl chloride	<12	<2.4
Ethyl acetate	<1,700	<480	1,3,5-Trimethylbenzene	<1,200	<240
Tetrahydrofuran	<210	<72	1,2,4-Trimethylbenzene	<1,200	<240
2-Butanone (MEK)	<1,400	<480	1,3-Dichlorobenzene	<140	<24
1,2-Dichloroethane (EDC)	<9.7	<2.4	1,4-Dichlorobenzene	<55	<9.1
1,1,1-Trichloroethane	<130	<24	1,2-Dichlorobenzene	<140	<24
Carbon tetrachloride	<75	<12	1,2,4-Trichlorobenzene	<180	<24
Benzene	24,000 ve	7,400 ve	Naphthalene	<63	<12
Cyclohexane	<1,700	<480	Hexachlorobutadiene	<51	<4.8

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T4D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-17 1/200
Date Analyzed:	10/14/25	Data File:	101417.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	490	280	1,2-Dichloropropane	<46	<10
Dichlorodifluoromethane	<200	<40	1,4-Dioxane	76	21
Chloromethane	<740	<360	2,2,4-Trimethylpentane	<930	<200
F-114	<420	<60	Methyl methacrylate	<820	<200
Vinyl chloride	<26	<10	Heptane	<820	<200
1,3-Butadiene	<8.8	<4	Bromodichloromethane	64	9.6
Butane	<950	<400	Trichloroethene	<21	<4
Bromomethane	<780	<200	cis-1,3-Dichloropropene	<180	<40
Chloroethane	<530	<200	4-Methyl-2-pentanone	<1,600 k	<400 k
Vinyl bromide	<87	<20	trans-1,3-Dichloropropene	<91	<20
Ethanol	<3,800	<2,000	Toluene	<1,500	<400
Acrolein	230	99	1,1,2-Trichloroethane	<11	<2
Pentane	<1,200	<400	2-Hexanone	5,300	1,300
Trichlorofluoromethane	<450	<80	Tetrachloroethene	<1,400	<200
Acetone	89,000 ve	38,000 ve	Dibromochloromethane	26	3.0
2-Propanol	<1,700	<700	1,2-Dibromoethane (EDB)	<15	<2
1,1-Dichloroethene	<79	<20	Chlorobenzene	<92	<20
trans-1,2-Dichloroethene	<79	<20	Ethylbenzene	270	62
Methylene chloride	<6,900	<2,000	1,1,2,2-Tetrachloroethane	<27	<4
t-Butyl alcohol (TBA)	<2,400	<800	Nonane	<1,000	<200
3-Chloropropene	<630	<200	Isopropylbenzene	<2,000	<400
CFC-113	<310	<40	2-Chlorotoluene	<1,000	<200
Carbon disulfide	<1,200	<400	Propylbenzene	<980	<200
Methyl t-butyl ether (MTBE)	<1,400	<400	4-Ethyltoluene	<980	<200
Vinyl acetate	<1,400	<400	m,p-Xylene	320	73
1,1-Dichloroethane	<81	<20	o-Xylene	120	27
cis-1,2-Dichloroethene	<79	<20	Styrene	<170	<40
Hexane	<700	<200	Bromoform	<410	<40
Chloroform	430	89	Benzyl chloride	<10	<2
Ethyl acetate	<1,400	<400	1,3,5-Trimethylbenzene	<980	<200
Tetrahydrofuran	430	150	1,2,4-Trimethylbenzene	<980	<200
2-Butanone (MEK)	14,000 ve	4,900 ve	1,3-Dichlorobenzene	<120	<20
1,2-Dichloroethane (EDC)	<8.1	<2	1,4-Dichlorobenzene	<46	<7.6
1,1,1-Trichloroethane	<110	<20	1,2-Dichlorobenzene	<120	<20
Carbon tetrachloride	<63	<10	1,2,4-Trichlorobenzene	<150	<20
Benzene	640	200	Naphthalene	<52	<10
Cyclohexane	<1,400	<400	Hexachlorobutadiene	<43	<4

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T5S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-19 1/2100
Date Analyzed:	10/14/25	Data File:	101422.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	101	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	41,000	24,000	1,2-Dichloropropane	<490	<100
Dichlorodifluoromethane	<2,100	<420	1,4-Dioxane	3,400	940
Chloromethane	<7,800	<3,800	2,2,4-Trimethylpentane	<9,800	<2,100
F-114	<4,400	<630	Methyl methacrylate	<8,600	<2,100
Vinyl chloride	<270	<100	Heptane	<8,600	<2,100
1,3-Butadiene	<93	<42	Bromodichloromethane	<140	<21
Butane	16,000	6,800	Trichloroethene	<230	<42
Bromomethane	<8,200	<2,100	cis-1,3-Dichloropropene	<1,900	<420
Chloroethane	<5,500	<2,100	4-Methyl-2-pentanone	<17,000 k	<4,200 k
Vinyl bromide	<920	<210	trans-1,3-Dichloropropene	<950	<210
Ethanol	49,000	26,000	Toluene	130,000 ve	34,000 ve
Acrolein	<240	<100	1,1,2-Trichloroethane	<110	<21
Pentane	14,000	4,800	2-Hexanone	<8,600	<2,100
Trichlorofluoromethane	<4,700	<840	Tetrachloroethene	<14,000	<2,100
Acetone	140,000 ve	57,000 ve	Dibromochloromethane	<180	<21
2-Propanol	160,000 ve	64,000 ve	1,2-Dibromoethane (EDB)	<160	<21
1,1-Dichloroethene	<830	<210	Chlorobenzene	2,600	560
trans-1,2-Dichloroethene	<830	<210	Ethylbenzene	150,000 ve	36,000 ve
Methylene chloride	<73,000	<21,000	1,1,2,2-Tetrachloroethane	<290	<42
t-Butyl alcohol (TBA)	<25,000	<8,400	Nonane	23,000	4,300
3-Chloropropene	<6,600	<2,100	Isopropylbenzene	47,000	9,700
CFC-113	<3,200	<420	2-Chlorotoluene	<11,000	<2,100
Carbon disulfide	<13,000	<4,200	Propylbenzene	<10,000	<2,100
Methyl t-butyl ether (MTBE)	<15,000	<4,200	4-Ethyltoluene	<10,000	<2,100
Vinyl acetate	<15,000	<4,200	m,p-Xylene	44,000	10,000
1,1-Dichloroethane	<850	<210	o-Xylene	23,000	5,300
cis-1,2-Dichloroethene	<830	<210	Styrene	<1,800	<420
Hexane	<7,400	<2,100	Bromoform	<4,300	<420
Chloroform	<100	<21	Benzyl chloride	<110	<21
Ethyl acetate	<15,000	<4,200	1,3,5-Trimethylbenzene	<10,000	<2,100
Tetrahydrofuran	37,000	13,000	1,2,4-Trimethylbenzene	<10,000	<2,100
2-Butanone (MEK)	66,000	22,000	1,3-Dichlorobenzene	<1,300	<210
1,2-Dichloroethane (EDC)	<85	<21	1,4-Dichlorobenzene	<480	<80
1,1,1-Trichloroethane	<1,100	<210	1,2-Dichlorobenzene	<1,300	<210
Carbon tetrachloride	<660	<100	1,2,4-Trichlorobenzene	<1,600	<210
Benzene	67,000	21,000	Naphthalene	<550	<100
Cyclohexane	<14,000	<4,200	Hexachlorobutadiene	<450	<42

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T5D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-21 1/2100
Date Analyzed:	10/14/25	Data File:	101423.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	103	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	8,400	4,900	1,2-Dichloropropane	<490	<100
Dichlorodifluoromethane	<2,100	<420	1,4-Dioxane	6,000	1,700
Chloromethane	<7,800	<3,800	2,2,4-Trimethylpentane	<9,800	<2,100
F-114	<4,400	<630	Methyl methacrylate	<8,600	<2,100
Vinyl chloride	<270	<100	Heptane	<8,600	<2,100
1,3-Butadiene	<93	<42	Bromodichloromethane	<140	<21
Butane	<10,000	<4,200	Trichloroethene	<230	<42
Bromomethane	<8,200	<2,100	cis-1,3-Dichloropropene	<1,900	<420
Chloroethane	<5,500	<2,100	4-Methyl-2-pentanone	<17,000 k	<4,200 k
Vinyl bromide	<920	<210	trans-1,3-Dichloropropene	<950	<210
Ethanol	<40,000	<21,000	Toluene	80,000	21,000
Acrolein	<240	<100	1,1,2-Trichloroethane	<110	<21
Pentane	<12,000	<4,200	2-Hexanone	<8,600	<2,100
Trichlorofluoromethane	<4,700	<840	Tetrachloroethene	<14,000	<2,100
Acetone	37,000	15,000	Dibromochloromethane	<180	<21
2-Propanol	<18,000	<7,300	1,2-Dibromoethane (EDB)	<160	<21
1,1-Dichloroethene	<830	<210	Chlorobenzene	2,300	510
trans-1,2-Dichloroethene	<830	<210	Ethylbenzene	180,000 ve	42,000 ve
Methylene chloride	<73,000	<21,000	1,1,2,2-Tetrachloroethane	<290	<42
t-Butyl alcohol (TBA)	<25,000	<8,400	Nonane	44,000	8,300
3-Chloropropene	<6,600	<2,100	Isopropylbenzene	70,000	14,000
CFC-113	<3,200	<420	2-Chlorotoluene	<11,000	<2,100
Carbon disulfide	<13,000	<4,200	Propylbenzene	<10,000	<2,100
Methyl t-butyl ether (MTBE)	<15,000	<4,200	4-Ethyltoluene	<10,000	<2,100
Vinyl acetate	<15,000	<4,200	m,p-Xylene	43,000	9,900
1,1-Dichloroethane	<850	<210	o-Xylene	23,000	5,300
cis-1,2-Dichloroethene	<830	<210	Styrene	<1,800	<420
Hexane	<7,400	<2,100	Bromoform	<4,300	<420
Chloroform	<100	<21	Benzyl chloride	<110	<21
Ethyl acetate	<15,000	<4,200	1,3,5-Trimethylbenzene	<10,000	<2,100
Tetrahydrofuran	17,000	5,800	1,2,4-Trimethylbenzene	<10,000	<2,100
2-Butanone (MEK)	<12,000	<4,200	1,3-Dichlorobenzene	<1,300	<210
1,2-Dichloroethane (EDC)	<85	<21	1,4-Dichlorobenzene	<480	<80
1,1,1-Trichloroethane	<1,100	<210	1,2-Dichlorobenzene	<1,300	<210
Carbon tetrachloride	<660	<100	1,2,4-Trichlorobenzene	<1,600	<210
Benzene	100,000 ve	32,000 ve	Naphthalene	<550	<100
Cyclohexane	<14,000	<4,200	Hexachlorobutadiene	<450	<42

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T6S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-23 1/15000
Date Analyzed:	10/15/25	Data File:	101425.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	350,000	200,000	1,2-Dichloropropane	<3,500	<750
Dichlorodifluoromethane	<15,000	<3,000	1,4-Dioxane	14,000	3,800
Chloromethane	<56,000	<27,000	2,2,4-Trimethylpentane	<70,000	<15,000
F-114	<31,000	<4,500	Methyl methacrylate	<61,000	<15,000
Vinyl chloride	<1,900	<750	Heptane	<61,000	<15,000
1,3-Butadiene	<660	<300	Bromodichloromethane	<1,000	<150
Butane	100,000	44,000	Trichloroethene	<1,600	<300
Bromomethane	<58,000	<15,000	cis-1,3-Dichloropropene	<14,000	<3,000
Chloroethane	<40,000	<15,000	4-Methyl-2-pentanone	<120,000 k	<30,000 k
Vinyl bromide	<6,600	<1,500	trans-1,3-Dichloropropene	<6,800	<1,500
Ethanol	<280,000	<150,000	Toluene	<110,000	<30,000
Acrolein	<1,700	<750	1,1,2-Trichloroethane	<820	<150
Pentane	110,000	37,000	2-Hexanone	<61,000	<15,000
Trichlorofluoromethane	<34,000	<6,000	Tetrachloroethene	<100,000	<15,000
Acetone	<89,000	<37,000	Dibromochloromethane	<1,300	<150
2-Propanol	<130,000	<52,000	1,2-Dibromoethane (EDB)	<1,200	<150
1,1-Dichloroethene	<5,900	<1,500	Chlorobenzene	<6,900	<1,500
trans-1,2-Dichloroethene	<5,900	<1,500	Ethylbenzene	86,000	20,000
Methylene chloride	<520,000	<150,000	1,1,2,2-Tetrachloroethane	<2,100	<300
t-Butyl alcohol (TBA)	<180,000	<60,000	Nonane	<79,000	<15,000
3-Chloropropene	<47,000	<15,000	Isopropylbenzene	<150,000	<30,000
CFC-113	<23,000	<3,000	2-Chlorotoluene	<78,000	<15,000
Carbon disulfide	<93,000	<30,000	Propylbenzene	<74,000	<15,000
Methyl t-butyl ether (MTBE)	<110,000	<30,000	4-Ethyltoluene	<74,000	<15,000
Vinyl acetate	<110,000	<30,000	m,p-Xylene	25,000	5,700
1,1-Dichloroethane	<6,100	<1,500	o-Xylene	21,000	4,800
cis-1,2-Dichloroethene	<5,900	<1,500	Styrene	<13,000	<3,000
Hexane	54,000	15,000	Bromoform	<31,000	<3,000
Chloroform	<730	<150	Benzyl chloride	<780	<150
Ethyl acetate	<110,000	<30,000	1,3,5-Trimethylbenzene	<74,000	<15,000
Tetrahydrofuran	26,000	8,900	1,2,4-Trimethylbenzene	<74,000	<15,000
2-Butanone (MEK)	<88,000	<30,000	1,3-Dichlorobenzene	<9,000	<1,500
1,2-Dichloroethane (EDC)	<610	<150	1,4-Dichlorobenzene	<3,400	<570
1,1,1-Trichloroethane	<8,200	<1,500	1,2-Dichlorobenzene	<9,000	<1,500
Carbon tetrachloride	<4,700	<750	1,2,4-Trichlorobenzene	<11,000	<1,500
Benzene	280,000	89,000	Naphthalene	12,000	2,400
Cyclohexane	<100,000	<30,000	Hexachlorobutadiene	<3,200	<300

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T6D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-25 1/30000
Date Analyzed:	10/15/25	Data File:	101426.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	350,000	200,000	1,2-Dichloropropane	<6,900	<1,500
Dichlorodifluoromethane	<30,000	<6,000	1,4-Dioxane	14,000	3,800
Chloromethane	<110,000	<54,000	2,2,4-Trimethylpentane	<140,000	<30,000
F-114	<63,000	<9,000	Methyl methacrylate	<120,000	<30,000
Vinyl chloride	<3,800	<1,500	Heptane	<120,000	<30,000
1,3-Butadiene	<1,300	<600	Bromodichloromethane	<2,000	<300
Butane	<140,000	<60,000	Trichloroethene	<3,200	<600
Bromomethane	<120,000	<30,000	cis-1,3-Dichloropropene	<27,000	<6,000
Chloroethane	<79,000	<30,000	4-Methyl-2-pentanone	<250,000 k	<60,000 k
Vinyl bromide	<13,000	<3,000	trans-1,3-Dichloropropene	<14,000	<3,000
Ethanol	<570,000	<300,000	Toluene	250,000	66,000
Acrolein	<3,400	<1,500	1,1,2-Trichloroethane	<1,600	<300
Pentane	<180,000	<60,000	2-Hexanone	<120,000	<30,000
Trichlorofluoromethane	<67,000	<12,000	Tetrachloroethene	<200,000	<30,000
Acetone	<180,000	<75,000	Dibromochloromethane	<2,600	<300
2-Propanol	<260,000	<100,000	1,2-Dibromoethane (EDB)	<2,300	<300
1,1-Dichloroethene	<12,000	<3,000	Chlorobenzene	<14,000	<3,000
trans-1,2-Dichloroethene	<12,000	<3,000	Ethylbenzene	220,000	51,000
Methylene chloride	<1,000,000	<300,000	1,1,2,2-Tetrachloroethane	<4,100	<600
t-Butyl alcohol (TBA)	<360,000	<120,000	Nonane	<160,000	<30,000
3-Chloropropene	<94,000	<30,000	Isopropylbenzene	<290,000	<60,000
CFC-113	<46,000	<6,000	2-Chlorotoluene	<160,000	<30,000
Carbon disulfide	<190,000	<60,000	Propylbenzene	<150,000	<30,000
Methyl t-butyl ether (MTBE)	<220,000	<60,000	4-Ethyltoluene	<150,000	<30,000
Vinyl acetate	<210,000	<60,000	m,p-Xylene	51,000	12,000
1,1-Dichloroethane	<12,000	<3,000	o-Xylene	31,000	7,100
cis-1,2-Dichloroethene	<12,000	<3,000	Styrene	<26,000	<6,000
Hexane	<110,000	<30,000	Bromoform	<62,000	<6,000
Chloroform	<1,500	<300	Benzyl chloride	<1,600	<300
Ethyl acetate	<220,000	<60,000	1,3,5-Trimethylbenzene	<150,000	<30,000
Tetrahydrofuran	<27,000	<9,000	1,2,4-Trimethylbenzene	<150,000	<30,000
2-Butanone (MEK)	<180,000	<60,000	1,3-Dichlorobenzene	<18,000	<3,000
1,2-Dichloroethane (EDC)	<1,200	<300	1,4-Dichlorobenzene	<6,900	<1,100
1,1,1-Trichloroethane	<16,000	<3,000	1,2-Dichlorobenzene	<18,000	<3,000
Carbon tetrachloride	<9,400	<1,500	1,2,4-Trichlorobenzene	<22,000	<3,000
Benzene	480,000	150,000	Naphthalene	<7,900	<1,500
Cyclohexane	<210,000	<60,000	Hexachlorobutadiene	<6,400	<600

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T7S	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-27 1/15000
Date Analyzed:	10/14/25	Data File:	101424.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	97	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	200,000	120,000	1,2-Dichloropropane	<3,500	<750
Dichlorodifluoromethane	<15,000	<3,000	1,4-Dioxane	6,400	1,800
Chloromethane	<56,000	<27,000	2,2,4-Trimethylpentane	<70,000	<15,000
F-114	<31,000	<4,500	Methyl methacrylate	<61,000	<15,000
Vinyl chloride	<1,900	<750	Heptane	<61,000	<15,000
1,3-Butadiene	<660	<300	Bromodichloromethane	<1,000	<150
Butane	<71,000	<30,000	Trichloroethene	<1,600	<300
Bromomethane	<58,000	<15,000	cis-1,3-Dichloropropene	<14,000	<3,000
Chloroethane	<40,000	<15,000	4-Methyl-2-pentanone	<120,000 k	<30,000 k
Vinyl bromide	<6,600	<1,500	trans-1,3-Dichloropropene	<6,800	<1,500
Ethanol	<280,000	<150,000	Toluene	<110,000	<30,000
Acrolein	<1,700	<750	1,1,2-Trichloroethane	<820	<150
Pentane	<89,000	<30,000	2-Hexanone	<61,000	<15,000
Trichlorofluoromethane	<34,000	<6,000	Tetrachloroethene	<100,000	<15,000
Acetone	200,000	86,000	Dibromochloromethane	<1,300	<150
2-Propanol	<130,000	<52,000	1,2-Dibromoethane (EDB)	<1,200	<150
1,1-Dichloroethene	<5,900	<1,500	Chlorobenzene	<6,900	<1,500
trans-1,2-Dichloroethene	<5,900	<1,500	Ethylbenzene	100,000	24,000
Methylene chloride	<520,000	<150,000	1,1,2,2-Tetrachloroethane	<2,100	<300
t-Butyl alcohol (TBA)	<180,000	<60,000	Nonane	<79,000	<15,000
3-Chloropropene	<47,000	<15,000	Isopropylbenzene	<150,000	<30,000
CFC-113	<23,000	<3,000	2-Chlorotoluene	<78,000	<15,000
Carbon disulfide	<93,000	<30,000	Propylbenzene	<74,000	<15,000
Methyl t-butyl ether (MTBE)	<110,000	<30,000	4-Ethyltoluene	<74,000	<15,000
Vinyl acetate	<110,000	<30,000	m,p-Xylene	27,000	6,200
1,1-Dichloroethane	<6,100	<1,500	o-Xylene	15,000	3,400
cis-1,2-Dichloroethene	<5,900	<1,500	Styrene	<13,000	<3,000
Hexane	<53,000	<15,000	Bromoform	<31,000	<3,000
Chloroform	<730	<150	Benzyl chloride	<780	<150
Ethyl acetate	<110,000	<30,000	1,3,5-Trimethylbenzene	<74,000	<15,000
Tetrahydrofuran	44,000	15,000	1,2,4-Trimethylbenzene	<74,000	<15,000
2-Butanone (MEK)	<88,000	<30,000	1,3-Dichlorobenzene	<9,000	<1,500
1,2-Dichloroethane (EDC)	<610	<150	1,4-Dichlorobenzene	<3,400	<570
1,1,1-Trichloroethane	<8,200	<1,500	1,2-Dichlorobenzene	<9,000	<1,500
Carbon tetrachloride	<4,700	<750	1,2,4-Trichlorobenzene	<11,000	<1,500
Benzene	240,000	76,000	Naphthalene	6,200	1,200
Cyclohexane	<100,000	<30,000	Hexachlorobutadiene	<3,200	<300

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	T7D	Client:	Parametrix
Date Received:	10/07/25	Project:	Rocky Top Environmental
Date Collected:	10/06/25	Lab ID:	510109-29 1/500
Date Analyzed:	10/14/25	Data File:	101419.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	101	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	89,000 ve	52,000 ve	1,2-Dichloropropane	210	46
Dichlorodifluoromethane	680	140	1,4-Dioxane	12,000	3,400
Chloromethane	<1,900	<900	2,2,4-Trimethylpentane	<2,300	<500
F-114	<1,000	<150	Methyl methacrylate	<2,000	<500
Vinyl chloride	<64	<25	Heptane	9,500	2,300
1,3-Butadiene	<22	<10	Bromodichloromethane	<34	<5
Butane	36,000 ve	15,000 ve	Trichloroethene	<54	<10
Bromomethane	<1,900	<500	cis-1,3-Dichloropropene	<450	<100
Chloroethane	<1,300	<500	4-Methyl-2-pentanone	<4,100 k	<1,000 k
Vinyl bromide	<220	<50	trans-1,3-Dichloropropene	<230	<50
Ethanol	<9,400	<5,000	Toluene	41,000 ve	11,000 ve
Acrolein	<57	<25	1,1,2-Trichloroethane	<27	<5
Pentane	36,000 ve	12,000 ve	2-Hexanone	<2,000	<500
Trichlorofluoromethane	<1,100	<200	Tetrachloroethene	<3,400	<500
Acetone	7,900	3,300	Dibromochloromethane	<43	<5
2-Propanol	<4,300	<1,700	1,2-Dibromoethane (EDB)	<38	<5
1,1-Dichloroethene	<200	<50	Chlorobenzene	1,400	300
trans-1,2-Dichloroethene	<200	<50	Ethylbenzene	99,000 ve	23,000 ve
Methylene chloride	<17,000	<5,000	1,1,2,2-Tetrachloroethane	<69	<10
t-Butyl alcohol (TBA)	<6,100	<2,000	Nonane	17,000	3,200
3-Chloropropene	<1,600	<500	Isopropylbenzene	65,000 ve	13,000 ve
CFC-113	<770	<100	2-Chlorotoluene	<2,600	<500
Carbon disulfide	<3,100	<1,000	Propylbenzene	6,300	1,300
Methyl t-butyl ether (MTBE)	<3,600	<1,000	4-Ethyltoluene	7,800	1,600
Vinyl acetate	<3,500	<1,000	m,p-Xylene	25,000	5,800
1,1-Dichloroethane	<200	<50	o-Xylene	21,000	4,900
cis-1,2-Dichloroethene	<200	<50	Styrene	<420	<100
Hexane	13,000	3,700	Bromoform	<1,000	<100
Chloroform	<24	<5	Benzyl chloride	<26	<5
Ethyl acetate	<3,600	<1,000	1,3,5-Trimethylbenzene	12,000	2,400
Tetrahydrofuran	13,000	4,400	1,2,4-Trimethylbenzene	19,000	3,800
2-Butanone (MEK)	<2,900	<1,000	1,3-Dichlorobenzene	<300	<50
1,2-Dichloroethane (EDC)	<20	<5	1,4-Dichlorobenzene	130	21
1,1,1-Trichloroethane	<270	<50	1,2-Dichlorobenzene	<300	<50
Carbon tetrachloride	<160	<25	1,2,4-Trichlorobenzene	<370	<50
Benzene	70,000 ve	22,000 ve	Naphthalene	1,500	280
Cyclohexane	<3,400	<1,000	Hexachlorobutadiene	<110	<10

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Parametrix
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Collected:	Not Applicable	Lab ID:	05-2582 mb
Date Analyzed:	10/14/25	Data File:	101412.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	94	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<1.4	<0.8	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.13	<0.05	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2 k	<2 k
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<19	<10	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<5.9	<2.5	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.88	<0.3	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.16	<0.05	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	Parametrix
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Collected:	Not Applicable	Lab ID:	05-2480 mb
Date Analyzed:	10/07/25	Data File:	100712.D
Matrix:	Air	Instrument:	GCMS8
Units:	ug/m3	Operator:	bat

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	Concentration ppbv	Compounds:	Concentration ug/m3	Concentration ppbv
Propene	<1.4	<0.8	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.99	<0.2	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<2.1	<0.3	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.13	<0.05	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<3.9	<1	cis-1,3-Dichloropropene	<0.91	<0.2
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<8.2	<2
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<19	<10	Toluene	<7.5	<2
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<5.9	<2	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<5.9	<2.5	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<3.1	<1	Isopropylbenzene	<9.8	<2
CFC-113	<1.5	<0.2	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<4.9	<1
Methyl t-butyl ether (MTBE)	<7.2	<2	4-Ethyltoluene	<4.9	<1
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<4.9	<1
Tetrahydrofuran	<0.88	<0.3	1,2,4-Trimethylbenzene	<4.9	<1
2-Butanone (MEK)	<5.9	<2	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.16	<0.05	Naphthalene	<0.052 j	<0.010 j
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD MA-APH

Laboratory Code: 510109-09 1/5.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<430	<430	nm
APH EC9-12 aliphatics	ug/m3	<140	<140	nm
APH EC9-10 aromatics	ug/m3	<140	<140	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	77	70-130
APH EC9-12 aliphatics	ug/m3	67	99	70-130
APH EC9-10 aromatics	ug/m3	67	109	70-130

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD MA-APH

Laboratory Code: 510109-02 1/1.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	<90	<90	nm
APH EC9-12 aliphatics	ug/m3	<30	<30	nm
APH EC9-10 aromatics	ug/m3	<30	<30	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	78	70-130
APH EC9-12 aliphatics	ug/m3	67	100	70-130
APH EC9-10 aromatics	ug/m3	67	110	70-130

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 510109-09 1/5.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Propene	ug/m3	<7.8	<7.8	nm
Dichlorodifluoromethane	ug/m3	<5.6	<5.6	nm
Chloromethane	ug/m3	<21	<21	nm
F-114	ug/m3	<12	<12	nm
Vinyl chloride	ug/m3	<0.73	<0.73	nm
1,3-Butadiene	ug/m3	<0.25	<0.25	nm
Butane	ug/m3	31	30	3
Bromomethane	ug/m3	<22	<22	nm
Chloroethane	ug/m3	<15	<15	nm
Vinyl bromide	ug/m3	<2.5	<2.5	nm
Ethanol	ug/m3	<110	<110	nm
Acrolein	ug/m3	<0.65	<0.65	nm
Pentane	ug/m3	<34	<34	nm
Trichlorofluoromethane	ug/m3	15	15	0
Acetone	ug/m3	190	180	5
2-Propanol	ug/m3	<49	<49	nm
1,1-Dichloroethene	ug/m3	7.9	7.8	1
trans-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Methylene chloride	ug/m3	<200	<200	nm
t-Butyl alcohol (TBA)	ug/m3	<69	<69	nm
3-Chloropropene	ug/m3	<18	<18	nm
CFC-113	ug/m3	<8.7	<8.7	nm
Carbon disulfide	ug/m3	<36	<36	nm
Methyl t-butyl ether (MTBE)	ug/m3	<41	<41	nm
Vinyl acetate	ug/m3	<40	<40	nm
1,1-Dichloroethane	ug/m3	<2.3	<2.3	nm
cis-1,2-Dichloroethene	ug/m3	<2.3	<2.3	nm
Hexane	ug/m3	<20	<20	nm
Chloroform	ug/m3	4.7	4.7	0
Ethyl acetate	ug/m3	<41	<41	nm
Tetrahydrofuran	ug/m3	<5	<5	nm
2-Butanone (MEK)	ug/m3	<34	<34	nm
1,2-Dichloroethane (EDC)	ug/m3	5.3	5.3	0
1,1,1-Trichloroethane	ug/m3	<3.1	<3.1	nm
Carbon tetrachloride	ug/m3	<1.8	<1.8	nm
Benzene	ug/m3	220	220	0
Cyclohexane	ug/m3	<39	<39	nm
1,2-Dichloropropane	ug/m3	<1.3	<1.3	nm
1,4-Dioxane	ug/m3	<2.1	<2.1	nm
2,2,4-Trimethylpentane	ug/m3	<27	<27	nm

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 510109-09 1/5.7 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Methyl methacrylate	ug/m3	<23	<23	nm
Heptane	ug/m3	<23	<23	nm
Bromodichloromethane	ug/m3	1.1	1.1	0
Trichloroethene	ug/m3	<0.61	<0.61	nm
cis-1,3-Dichloropropene	ug/m3	<5.2	<5.2	nm
4-Methyl-2-pentanone	ug/m3	<47	<47	nm
trans-1,3-Dichloropropene	ug/m3	<2.6	<2.6	nm
Toluene	ug/m3	<43	<43	nm
1,1,2-Trichloroethane	ug/m3	<0.31	<0.31	nm
2-Hexanone	ug/m3	<23	<23	nm
Tetrachloroethene	ug/m3	<39	<39	nm
Dibromochloromethane	ug/m3	0.97	0.97	0
1,2-Dibromoethane (EDB)	ug/m3	<0.44	<0.44	nm
Chlorobenzene	ug/m3	<2.6	<2.6	nm
Ethylbenzene	ug/m3	<2.5	<2.5	nm
1,1,2,2-Tetrachloroethane	ug/m3	<0.78	<0.78	nm
Nonane	ug/m3	<30	<30	nm
Isopropylbenzene	ug/m3	<56	<56	nm
2-Chlorotoluene	ug/m3	<30	<30	nm
Propylbenzene	ug/m3	<28	<28	nm
4-Ethyltoluene	ug/m3	<28	<28	nm
m,p-Xylene	ug/m3	<5	<5	nm
o-Xylene	ug/m3	<2.5	<2.5	nm
Styrene	ug/m3	<4.9	<4.9	nm
Bromoform	ug/m3	<12	<12	nm
Benzyl chloride	ug/m3	<0.3	<0.3	nm
1,3,5-Trimethylbenzene	ug/m3	<28	<28	nm
1,2,4-Trimethylbenzene	ug/m3	<28	<28	nm
1,3-Dichlorobenzene	ug/m3	<3.4	<3.4	nm
1,4-Dichlorobenzene	ug/m3	<1.3	<1.3	nm
1,2-Dichlorobenzene	ug/m3	<3.4	<3.4	nm
1,2,4-Trichlorobenzene	ug/m3	<4.2	<4.2	nm
Naphthalene	ug/m3	<1.5	<1.5	nm
Hexachlorobutadiene	ug/m3	<1.2	<1.2	nm

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Propene	ug/m3	23	111	70-130
Dichlorodifluoromethane	ug/m3	67	104	70-130
Chloromethane	ug/m3	28	116	70-130
F-114	ug/m3	94	102	70-130
Vinyl chloride	ug/m3	35	100	70-130
1,3-Butadiene	ug/m3	30	98	70-130
Butane	ug/m3	32	106	70-130
Bromomethane	ug/m3	52	98	70-130
Chloroethane	ug/m3	36	100	70-130
Vinyl bromide	ug/m3	59	97	70-130
Ethanol	ug/m3	25	76	70-130
Acrolein	ug/m3	31	93	70-130
Pentane	ug/m3	40	88	70-130
Trichlorofluoromethane	ug/m3	76	106	70-130
Acetone	ug/m3	32	107	70-130
2-Propanol	ug/m3	33	97	70-130
1,1-Dichloroethene	ug/m3	54	101	70-130
trans-1,2-Dichloroethene	ug/m3	54	101	70-130
Methylene chloride	ug/m3	94	98	70-130
t-Butyl alcohol (TBA)	ug/m3	41	104	70-130
3-Chloropropene	ug/m3	42	101	70-130
CFC-113	ug/m3	100	105	70-130
Carbon disulfide	ug/m3	42	98	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	94	70-130
Vinyl acetate	ug/m3	48	87	70-130
1,1-Dichloroethane	ug/m3	55	106	70-130
cis-1,2-Dichloroethene	ug/m3	54	101	70-130
Hexane	ug/m3	48	94	70-130
Chloroform	ug/m3	66	105	70-130
Ethyl acetate	ug/m3	49	99	70-130
Tetrahydrofuran	ug/m3	40	108	70-130
2-Butanone (MEK)	ug/m3	40	84	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	111	70-130
1,1,1-Trichloroethane	ug/m3	74	107	70-130
Carbon tetrachloride	ug/m3	85	104	70-130
Benzene	ug/m3	43	100	70-130
Cyclohexane	ug/m3	46	95	70-130
1,2-Dichloropropane	ug/m3	62	105	70-130
1,4-Dioxane	ug/m3	49	106	70-130
2,2,4-Trimethylpentane	ug/m3	63	102	70-130

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Methyl methacrylate	ug/m3	55	115	70-130
Heptane	ug/m3	55	109	70-130
Bromodichloromethane	ug/m3	90	107	70-130
Trichloroethene	ug/m3	73	103	70-130
cis-1,3-Dichloropropene	ug/m3	61	105	70-130
4-Methyl-2-pentanone	ug/m3	55	140 vo	70-130
trans-1,3-Dichloropropene	ug/m3	61	105	70-130
Toluene	ug/m3	51	103	70-130
1,1,2-Trichloroethane	ug/m3	74	99	70-130
2-Hexanone	ug/m3	55	106	70-130
Tetrachloroethene	ug/m3	92	106	70-130
Dibromochloromethane	ug/m3	120	103	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	105	70-130
Chlorobenzene	ug/m3	62	99	70-130
Ethylbenzene	ug/m3	59	101	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	102	70-130
Nonane	ug/m3	71	101	70-130
Isopropylbenzene	ug/m3	66	102	70-130
2-Chlorotoluene	ug/m3	70	99	70-130
Propylbenzene	ug/m3	66	98	70-130
4-Ethyltoluene	ug/m3	66	99	70-130
m,p-Xylene	ug/m3	120	101	70-130
o-Xylene	ug/m3	59	105	70-130
Styrene	ug/m3	58	98	70-130
Bromoform	ug/m3	140	100	70-130
Benzyl chloride	ug/m3	70	98	70-130
1,3,5-Trimethylbenzene	ug/m3	66	100	70-130
1,2,4-Trimethylbenzene	ug/m3	66	94	70-130
1,3-Dichlorobenzene	ug/m3	81	101	70-130
1,4-Dichlorobenzene	ug/m3	81	101	70-130
1,2-Dichlorobenzene	ug/m3	81	99	70-130
1,2,4-Trichlorobenzene	ug/m3	100	92	70-130
Naphthalene	ug/m3	71	98	70-130
Hexachlorobutadiene	ug/m3	140	100	70-130

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 510109-02 1/1.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Propene	ug/m3	1.8	<1.7	nm
Dichlorodifluoromethane	ug/m3	2.5	2.3	8
Chloromethane	ug/m3	<4.5	<4.5	nm
F-114	ug/m3	<2.5	<2.5	nm
Vinyl chloride	ug/m3	<0.15	<0.15	nm
1,3-Butadiene	ug/m3	<0.053	<0.053	nm
Butane	ug/m3	<5.7	<5.7	nm
Bromomethane	ug/m3	<4.7	<4.7	nm
Chloroethane	ug/m3	<3.2	<3.2	nm
Vinyl bromide	ug/m3	<0.52	<0.52	nm
Ethanol	ug/m3	<23	<23	nm
Acrolein	ug/m3	0.62	0.62	0
Pentane	ug/m3	<7.1	<7.1	nm
Trichlorofluoromethane	ug/m3	<2.7	<2.7	nm
Acetone	ug/m3	19	19	0
2-Propanol	ug/m3	<10	<10	nm
1,1-Dichloroethene	ug/m3	<0.48	<0.48	nm
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48	nm
Methylene chloride	ug/m3	<42	<42	nm
t-Butyl alcohol (TBA)	ug/m3	<15	<15	nm
3-Chloropropene	ug/m3	<3.8	<3.8	nm
CFC-113	ug/m3	<1.8	<1.8	nm
Carbon disulfide	ug/m3	<7.5	<7.5	nm
Methyl t-butyl ether (MTBE)	ug/m3	<8.7	<8.7	nm
Vinyl acetate	ug/m3	<8.5	<8.5	nm
1,1-Dichloroethane	ug/m3	<0.49	<0.49	nm
cis-1,2-Dichloroethene	ug/m3	<0.48	<0.48	nm
Hexane	ug/m3	<4.2	<4.2	nm
Chloroform	ug/m3	<0.059	<0.059	nm
Ethyl acetate	ug/m3	<8.6	<8.6	nm
Tetrahydrofuran	ug/m3	<1.1	<1.1	nm
2-Butanone (MEK)	ug/m3	<7.1	<7.1	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.049	<0.049	nm
1,1,1-Trichloroethane	ug/m3	<0.65	<0.65	nm
Carbon tetrachloride	ug/m3	0.46	0.45	2
Benzene	ug/m3	1.1	1.0	10
Cyclohexane	ug/m3	<8.3	<8.3	nm
1,2-Dichloropropane	ug/m3	<0.28	<0.28	nm
1,4-Dioxane	ug/m3	<0.43	<0.43	nm
2,2,4-Trimethylpentane	ug/m3	<5.6	<5.6	nm

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: 510109-02 1/1.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 25)
Methyl methacrylate	ug/m3	<4.9	<4.9	nm
Heptane	ug/m3	<4.9	<4.9	nm
Bromodichloromethane	ug/m3	<0.08	<0.08	nm
Trichloroethene	ug/m3	<0.13	<0.13	nm
cis-1,3-Dichloropropene	ug/m3	<1.1	<1.1	nm
4-Methyl-2-pentanone	ug/m3	<9.8	<9.8	nm
trans-1,3-Dichloropropene	ug/m3	<0.54	<0.54	nm
Toluene	ug/m3	<9	<9	nm
1,1,2-Trichloroethane	ug/m3	<0.065	<0.065	nm
2-Hexanone	ug/m3	<4.9	<4.9	nm
Tetrachloroethene	ug/m3	<8.1	<8.1	nm
Dibromochloromethane	ug/m3	<0.1	<0.1	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.092	<0.092	nm
Chlorobenzene	ug/m3	<0.55	<0.55	nm
Ethylbenzene	ug/m3	<0.52	<0.52	nm
1,1,2,2-Tetrachloroethane	ug/m3	<0.16	<0.16	nm
Nonane	ug/m3	<6.3	<6.3	nm
Isopropylbenzene	ug/m3	<12	<12	nm
2-Chlorotoluene	ug/m3	<6.2	<6.2	nm
Propylbenzene	ug/m3	<5.9	<5.9	nm
4-Ethyltoluene	ug/m3	<5.9	<5.9	nm
m,p-Xylene	ug/m3	<1	<1	nm
o-Xylene	ug/m3	<0.52	<0.52	nm
Styrene	ug/m3	<1	<1	nm
Bromoform	ug/m3	<2.5	<2.5	nm
Benzyl chloride	ug/m3	<0.062	<0.062	nm
1,3,5-Trimethylbenzene	ug/m3	<5.9	<5.9	nm
1,2,4-Trimethylbenzene	ug/m3	<5.9	<5.9	nm
1,3-Dichlorobenzene	ug/m3	<0.72	<0.72	nm
1,4-Dichlorobenzene	ug/m3	<0.27	<0.27	nm
1,2-Dichlorobenzene	ug/m3	<0.72	<0.72	nm
1,2,4-Trichlorobenzene	ug/m3	<0.89	<0.89	nm
Naphthalene	ug/m3	0.33	0.33	0
Hexachlorobutadiene	ug/m3	<0.26	<0.26	nm

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Propene	ug/m3	23	104	70-130
Dichlorodifluoromethane	ug/m3	67	102	70-130
Chloromethane	ug/m3	28	102	70-130
F-114	ug/m3	94	98	70-130
Vinyl chloride	ug/m3	35	101	70-130
1,3-Butadiene	ug/m3	30	100	70-130
Butane	ug/m3	32	107	70-130
Bromomethane	ug/m3	52	103	70-130
Chloroethane	ug/m3	36	101	70-130
Vinyl bromide	ug/m3	59	98	70-130
Ethanol	ug/m3	25	104	70-130
Acrolein	ug/m3	31	93	70-130
Pentane	ug/m3	40	105	70-130
Trichlorofluoromethane	ug/m3	76	104	70-130
Acetone	ug/m3	32	112	70-130
2-Propanol	ug/m3	33	105	70-130
1,1-Dichloroethene	ug/m3	54	102	70-130
trans-1,2-Dichloroethene	ug/m3	54	102	70-130
Methylene chloride	ug/m3	94	101	70-130
t-Butyl alcohol (TBA)	ug/m3	41	112	70-130
3-Chloropropene	ug/m3	42	104	70-130
CFC-113	ug/m3	100	105	70-130
Carbon disulfide	ug/m3	42	95	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	103	70-130
Vinyl acetate	ug/m3	48	99	70-130
1,1-Dichloroethane	ug/m3	55	106	70-130
cis-1,2-Dichloroethene	ug/m3	54	101	70-130
Hexane	ug/m3	48	93	70-130
Chloroform	ug/m3	66	104	70-130
Ethyl acetate	ug/m3	49	101	70-130
Tetrahydrofuran	ug/m3	40	120	70-130
2-Butanone (MEK)	ug/m3	40	88	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	111	70-130
1,1,1-Trichloroethane	ug/m3	74	107	70-130
Carbon tetrachloride	ug/m3	85	104	70-130
Benzene	ug/m3	43	100	70-130
Cyclohexane	ug/m3	46	88	70-130
1,2-Dichloropropane	ug/m3	62	107	70-130
1,4-Dioxane	ug/m3	49	120	70-130
2,2,4-Trimethylpentane	ug/m3	63	103	70-130

Date of Report: 10/22/25
Date Received: 10/07/25
Project: Rocky Top Environmental RI 553-8472-010, F&BI 510109

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Methyl methacrylate	ug/m3	55	118	70-130
Heptane	ug/m3	55	111	70-130
Bromodichloromethane	ug/m3	90	108	70-130
Trichloroethene	ug/m3	73	106	70-130
cis-1,3-Dichloropropene	ug/m3	61	113	70-130
4-Methyl-2-pentanone	ug/m3	55	114	70-130
trans-1,3-Dichloropropene	ug/m3	61	109	70-130
Toluene	ug/m3	51	107	70-130
1,1,2-Trichloroethane	ug/m3	74	102	70-130
2-Hexanone	ug/m3	55	115	70-130
Tetrachloroethene	ug/m3	92	110	70-130
Dibromochloromethane	ug/m3	120	104	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	109	70-130
Chlorobenzene	ug/m3	62	104	70-130
Ethylbenzene	ug/m3	59	105	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	106	70-130
Nonane	ug/m3	71	107	70-130
Isopropylbenzene	ug/m3	66	104	70-130
2-Chlorotoluene	ug/m3	70	100	70-130
Propylbenzene	ug/m3	66	104	70-130
4-Ethyltoluene	ug/m3	66	105	70-130
m,p-Xylene	ug/m3	120	104	70-130
o-Xylene	ug/m3	59	109	70-130
Styrene	ug/m3	58	101	70-130
Bromoform	ug/m3	140	102	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	105	70-130
1,2,4-Trimethylbenzene	ug/m3	66	100	70-130
1,3-Dichlorobenzene	ug/m3	81	106	70-130
1,4-Dichlorobenzene	ug/m3	81	106	70-130
1,2-Dichlorobenzene	ug/m3	81	105	70-130
1,2,4-Trichlorobenzene	ug/m3	100	103	70-130
Naphthalene	ug/m3	71	106	70-130
Hexachlorobutadiene	ug/m3	140	105	70-130

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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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 – 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.

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.

510109

SAMPLE CHAIN OF CUSTODY

10/7/25

Page # 1 of 4

Report To Mike Brady
Company Parametrix
Address 719 2nd Ave Ste 200
City, State, ZIP Seattle, WA 98104
Phone 206.519.5784 Email

SAMPLERS (signature)

PROJECT NAME & ADDRESS: ROCKY TOP ENVIRONMENTAL RI

PO # 553-8472-010

NOTES: TWO SUMMAS PER GAS PROBE

INVOICE TO: DTG

TURNAROUND TIME
☒ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION / ANALYSIS REQUESTED

Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	3C Mass Gases	Notes
AMB-1	01	18580	15210	(IA) / SG	10/6/25	-29.5	820	-10	1431	X		X				
AMB-6	02	18565	20480	(IA) / SG	10/6/25	-30	839	-13	1446	X		X				
AMB-11	03	35339	15246	(IA) / SG	10/6/25	-29	906	-9	1509	X		X				
AMB-13	04	4088	15243	(IA) / SG	10/6/25	-28	850	-10	1456	X		X				
AMB-16	05	37224	20458	(IA) / SG	10/6/25	-29	834	-8	1441	X		X				
AMB-25	06	32099	15208	(IA) / SG	10/6/25	-29	900	-9	1500	X		X				
GP-2	07	8394	280	IA / (SG)	10/6/25	-28	1139	-4	1145	X		X				
GP-2	08	9900	64	IA / (SG)	10/6/25	-28.5	1145	-4	1151						X	canister ID #9990 (NP)

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Mike Brady	Parametrix	10/7	938
Received by:	Michael Erdahl	F&Bn	10/7	938
Relinquished by:		Samples received at 19 °C		
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COCTO-15.DOC

510109

SAMPLE CHAIN OF CUSTODY

10/7/25

Page # 2 of 4

Report To Mike Brady
Company Parametrix
Address 719 2nd Ave Ste 200
City, State, ZIP Seattle, WA 98104
Phone 206.519.5781 Email

SAMPLERS (signature)

PROJECT NAME & ADDRESS: Rocky Top Environmental RI

PO # 553-8472-010

NOTES: TWO SUMMAS PER GAS PROBE

INVOICE TO: DTH

TURNAROUND TIME
☒ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	Major Gases	Notes
GP-3	09	4175	06	IA / (SG)	10/6/25	-28	1059	-4	1104	X		X				
GP-3	10	9562	91	IA / (SG)	10/6/25	-27.5	1106	-4	1111						X	
GP-20	11	3312	01	IA / (SG)	10/6/25	-28	1035	-4	1041	X		X				
GP-20	12	3675	111	IA / (SG)	10/6/25	-28	1042	-4	1048						X	
T3	13	3664	18	IA / (SG)	10/6/25	-29	1103	-4	1113	X		X				
T3	14	8211	31	IA / (SG)	10/6/25	-30	1114	-4	1121						X	
T45	15	4181	77	IA / (SG)	10/6/25	-28.5	930	-4	935	X		X				
T45	16	8346	307	IA / (SG)	10/6/25	-28	937	-4	942						X	

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5500 4th Avenue South
Seattle, WA 98108
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	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Mike Brady	Parametrix	10/7	938
~~Received by:~~		Michael Endahl	F&B	10/7	938
Relinquished by:			Samples received at 19 °C		
Received by:					

510109

SAMPLE CHAIN OF CUSTODY

10/7/25

Page # 3 of 4

Report To Mike Brady
Company Parametrix
Address 719 2nd Ave Ste 200
City, State, ZIP Seattle WA
Phone 206.519.5781 Email

SAMPLERS (signature)

PROJECT NAME & ADDRESS: Rocky Top Environmental RI

PO # 553-8472-010

NOTES: TWO SUMMAS PER GAS PROBE

INVOICE TO: DTG

TURNAROUND TIME
☑ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	3C Major Gases	Notes
T4D	17	8255	95	IA / (SG)	10/6/25	-28	953	-4	958	X		X				
T4D	18	9563	243	IA / (SG)	10/6/25	-29	1000	-4	1006						X	
T5S	19	9564	97	IA / (SG)	10/6/25	-27.5	1147	-4	1152	X		X				
T5S	20	9988	255	IA / (SG)	10/6/25	-28	1153	-4	1159						X	
T5D	21	8098	61	IA / (SG)	10/6/25	-27	1212	-4	1216	X		X				
T5D	22	9568	73	IA / (SG)	10/6/25	-26	1218	-4	1223						X	
T6S	23	8210	25	IA / (SG)	10/6/25	-28.5	1231	-4	1237	X		X				
T6S	24	9882	259	IA / (SG)	10/6/25	-30	1237	-4	1244						X	

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5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COCT0-15.DOC

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Mike Brady	Parametrix	10/7	938
Received by:		Michael Erdahl	F&Bre	10/7	938
Relinquished by:			Samples received at 19 °C		
Received by:					

510109

SAMPLE CHAIN OF CUSTODY

10/7/25

Page # 4 of 4

Report To Mike Brady

Company Parametrix

Address 719 2nd Ave Ste 200

City, State, ZIP Seattle, WA 98104

Phone 206.519.5781 Email

SAMPLERS (signature)

PROJECT NAME & ADDRESS: Rocky Top Environmental RI

PO # 553-8472-010

NOTES: Two summas per gas probe

INVOICE TO: DTG

TURNAROUND TIME
☒ Standard
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Default: Clean following final report delivery
Hold (Fee may apply):

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	3C Major Gases	Notes
T6D	25	9565	05	IA / (SG)	10/6/25	-28.5	1249	-4	1254	X		X				
T6D	26	8532	67	IA / (SG)	10/6/25	-28.5	1255	-4	1300						X	
T7S	27	4185	93	IA / (SG)	10/6/25	-29	1302	-4	1308	X		X				
T7S	28	3677	69	IA / (SG)	10/6/25	-27.5	1309	-4	1314						X	
T7D	29	3666	242	IA / (SG)	10/6/25	-27.5	1324	-4	1330	X		X				
T7D	30	3671	21	IA / (SG)	10/6/25	-27.5	1332	-4	1338						X	
				IA / SG												
				IA / SG												

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Mike Brady	Parametrix	10/7	938
Received by:		Michael Erdahl	F&B	10/7	938
Relinquished by:			Samples received at 19		
Received by:					

Friedman & Bruya, Inc.
5500 4th Avenue South
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 510109 CLIENT Parametrix INITIALS/ DATE: AP 10/7/25

If custody seals are present on cooler, are they intact? ☑ NA ☐ YES ☐ NO

Cooler/Sample temperature 19 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☑ NO

How did samples arrive?
☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ Date: (NP) 10/7
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? ☑ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☑ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes	☐ No	☐ Not on COC/label
Date Sampled	☑ Yes	☐ No	☐ Not on COC/label
Time Sampled	☑ Yes	☐ No	☐ Not on COC/label
# of Containers	☑ Yes	☐ No	
Relinquished	☑ Yes	☐ No	
Requested analysis	☑ Yes	☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☒ YES ☐ NO

Number of unused TO15 canisters** 5 **Number of unused TO17 tubes** _____
**Fill out Green manifolds billing sheet S/N 20541, 3251, 9987, 8267 and 2304

3600 Fremont Ave N
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
5500 4th Ave S
Seattle, WA 98108

RE: 510109,
Work Order Number: 2510235

October 17, 2025

Attention Michael Erdahl:

Alliance Technical Group, LLC - Seattle received 12 sample(s) on 10/8/2025 for the analyses presented in the following report.

Major Gases by EPA Method 3C

All analyses were performed according to our accredited Quality Assurance program. Please contact the laboratory if you should have any questions about the results.

Alliance Technical Group is committed to accuracy, speed, and customer service. Thank you for choosing Alliance Technical Group's Seattle laboratory team for your analytical needs. We appreciate this opportunity to serve you!

Sincerely,

Brianna Barnes
Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.4 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original

Date: *10/17/2025*

CLIENT: Friedman & Bruya
Project: 510109
Work Order: 2510235

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2510235-001	GP-2	10/06/2025 11:51 AM	10/08/2025 12:00 PM
2510235-002	GP-3	10/06/2025 11:11 AM	10/08/2025 12:00 PM
2510235-003	GP-20	10/06/2025 10:48 AM	10/08/2025 12:00 PM
2510235-004	T3	10/06/2025 11:21 AM	10/08/2025 12:00 PM
2510235-005	T4S	10/06/2025 9:42 AM	10/08/2025 12:00 PM
2510235-006	T4D	10/06/2025 10:06 AM	10/08/2025 12:00 PM
2510235-007	T5S	10/06/2025 11:59 AM	10/08/2025 12:00 PM
2510235-008	T5D	10/06/2025 12:23 PM	10/08/2025 12:00 PM
2510235-009	T6S	10/06/2025 12:44 PM	10/08/2025 12:00 PM
2510235-010	T6D	10/06/2025 1:00 PM	10/08/2025 12:00 PM
2510235-011	T7S	10/06/2025 1:14 PM	10/08/2025 12:00 PM
2510235-012	T7D	10/06/2025 1:38 PM	10/08/2025 12:00 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2510235**
Date: **10/17/2025**

CLIENT: Friedman & Bruya
Project: 510109

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Major gases are reported as % ratio of the Major Gases analyzed (Carbon dioxide, Carbon Monoxide, Methane, Nitrogen, Oxygen and Hydrogen).

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS). The LCS is processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Note: The estimated BTU calculation is based off of the methane result.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2510235**
Date Reported: **10/17/2025**

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-001 **Collection Date:** 10/6/2025 11:51:00 AM
Client Sample ID: **GP-2** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	ND	0.0500		%	1	10/16/2025 3:00:00 PM
Carbon Monoxide	ND	0.0500		%	1	10/16/2025 3:00:00 PM
Methane	ND	0.0500		%	1	10/16/2025 3:00:00 PM
Nitrogen	82.3	0.0500		%	1	10/16/2025 3:00:00 PM
Oxygen	17.7	0.0500		%	1	10/16/2025 3:00:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 3:00:00 PM
BTU	ND			BTU/ft³	1	10/16/2025 3:00:00 PM

Lab ID: 2510235-002 **Collection Date:** 10/6/2025 11:11:00 AM
Client Sample ID: **GP-3** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	ND	0.0500		%	1	10/16/2025 4:03:00 PM
Carbon Monoxide	ND	0.0500		%	1	10/16/2025 4:03:00 PM
Methane	ND	0.0500		%	1	10/16/2025 4:03:00 PM
Nitrogen	79.5	0.0500		%	1	10/16/2025 4:03:00 PM
Oxygen	20.5	0.0500		%	1	10/16/2025 4:03:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 4:03:00 PM
BTU	ND			BTU/ft³	1	10/16/2025 4:03:00 PM

Analytical Report

Work Order: **2510235**
Date Reported: **10/17/2025**

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-003 **Collection Date:** 10/6/2025 10:48:00 AM
Client Sample ID: **GP-20** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	22.4	0.0500		%	1	10/16/2025 4:19:00 PM
Carbon Monoxide	ND	0.0500		%	1	10/16/2025 4:19:00 PM
Methane	ND	0.0500		%	1	10/16/2025 4:19:00 PM
Nitrogen	76.3	0.0500		%	1	10/16/2025 4:19:00 PM
Oxygen	1.32	0.0500		%	1	10/16/2025 4:19:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 4:19:00 PM
BTU	ND			BTU/ft^3	1	10/16/2025 4:19:00 PM

Lab ID: 2510235-004 **Collection Date:** 10/6/2025 11:21:00 AM
Client Sample ID: **T3** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	21.1	0.0500		%	1	10/16/2025 4:32:00 PM
Carbon Monoxide	0.449	0.0500		%	1	10/16/2025 4:32:00 PM
Methane	ND	0.0500		%	1	10/16/2025 4:32:00 PM
Nitrogen	77.2	0.0500		%	1	10/16/2025 4:32:00 PM
Oxygen	1.27	0.0500		%	1	10/16/2025 4:32:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 4:32:00 PM
BTU	ND			BTU/ft^3	1	10/16/2025 4:32:00 PM

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-005 **Collection Date:** 10/6/2025 9:42:00 AM
Client Sample ID: **T4S** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	19.3	0.0500		%	1	10/16/2025 4:45:00 PM
Carbon Monoxide	0.274	0.0500		%	1	10/16/2025 4:45:00 PM
Methane	ND	0.0500		%	1	10/16/2025 4:45:00 PM
Nitrogen	78.8	0.0500		%	1	10/16/2025 4:45:00 PM
Oxygen	1.59	0.0500		%	1	10/16/2025 4:45:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 4:45:00 PM
BTU	ND			BTU/ft^3	1	10/16/2025 4:45:00 PM

Lab ID: 2510235-006 **Collection Date:** 10/6/2025 10:06:00 AM
Client Sample ID: **T4D** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10388		Analyst: SH
Carbon Dioxide	ND	0.0500		%	1	10/16/2025 4:57:00 PM
Carbon Monoxide	ND	0.0500		%	1	10/16/2025 4:57:00 PM
Methane	ND	0.0500		%	1	10/16/2025 4:57:00 PM
Nitrogen	79.9	0.0500		%	1	10/16/2025 4:57:00 PM
Oxygen	20.1	0.0500		%	1	10/16/2025 4:57:00 PM
Hydrogen	ND	0.0500		%	1	10/16/2025 4:57:00 PM
BTU	ND			BTU/ft^3	1	10/16/2025 4:57:00 PM

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-007 **Collection Date:** 10/6/2025 11:59:00 AM
Client Sample ID: **T5S** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	23.3	0.0500		%	1	10/17/2025 9:50:00 AM
Carbon Monoxide	ND	0.0500		%	1	10/17/2025 9:50:00 AM
Methane	ND	0.0500		%	1	10/17/2025 9:50:00 AM
Nitrogen	75.4	0.0500		%	1	10/17/2025 9:50:00 AM
Oxygen	1.31	0.0500		%	1	10/17/2025 9:50:00 AM
Hydrogen	ND	0.0500		%	1	10/17/2025 9:50:00 AM
BTU	ND			BTU/ft^3	1	10/17/2025 9:50:00 AM

Lab ID: 2510235-008 **Collection Date:** 10/6/2025 12:23:00 PM
Client Sample ID: **T5D** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	20.8	0.0500		%	1	10/17/2025 10:25:00 AM
Carbon Monoxide	ND	0.0500		%	1	10/17/2025 10:25:00 AM
Methane	ND	0.0500		%	1	10/17/2025 10:25:00 AM
Nitrogen	77.8	0.0500		%	1	10/17/2025 10:25:00 AM
Oxygen	1.38	0.0500		%	1	10/17/2025 10:25:00 AM
Hydrogen	ND	0.0500		%	1	10/17/2025 10:25:00 AM
BTU	ND			BTU/ft^3	1	10/17/2025 10:25:00 AM

Analytical Report

Work Order: **2510235**
Date Reported: **10/17/2025**

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-009 **Collection Date:** 10/6/2025 12:44:00 PM
Client Sample ID: **T6S** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	24.2	0.0500		%	1	10/17/2025 10:42:00 AM
Carbon Monoxide	ND	0.0500		%	1	10/17/2025 10:42:00 AM
Methane	ND	0.0500		%	1	10/17/2025 10:42:00 AM
Nitrogen	73.7	0.0500		%	1	10/17/2025 10:42:00 AM
Oxygen	1.25	0.0500		%	1	10/17/2025 10:42:00 AM
Hydrogen	0.854	0.0500		%	1	10/17/2025 10:42:00 AM
BTU	ND			BTU/ft^3	1	10/17/2025 10:42:00 AM

Lab ID: 2510235-010 **Collection Date:** 10/6/2025 1:00:00 PM
Client Sample ID: **T6D** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	23.5	0.0500		%	1	10/17/2025 11:35:00 AM
Carbon Monoxide	0.458	0.0500		%	1	10/17/2025 11:35:00 AM
Methane	ND	0.0500		%	1	10/17/2025 11:35:00 AM
Nitrogen	74.8	0.0500		%	1	10/17/2025 11:35:00 AM
Oxygen	1.29	0.0500		%	1	10/17/2025 11:35:00 AM
Hydrogen	ND	0.0500		%	1	10/17/2025 11:35:00 AM
BTU	ND			BTU/ft^3	1	10/17/2025 11:35:00 AM

CLIENT: Friedman & Bruya
Project: 510109

Lab ID: 2510235-011 **Collection Date:** 10/6/2025 1:14:00 PM
Client Sample ID: **T7S** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	24.4	0.0500		%	1	10/17/2025 11:48:00 AM
Carbon Monoxide	0.433	0.0500		%	1	10/17/2025 11:48:00 AM
Methane	ND	0.0500		%	1	10/17/2025 11:48:00 AM
Nitrogen	73.9	0.0500		%	1	10/17/2025 11:48:00 AM
Oxygen	1.28	0.0500		%	1	10/17/2025 11:48:00 AM
Hydrogen	ND	0.0500		%	1	10/17/2025 11:48:00 AM
BTU	ND			BTU/ft^3	1	10/17/2025 11:48:00 AM

Lab ID: 2510235-012 **Collection Date:** 10/6/2025 1:38:00 PM
Client Sample ID: **T7D** **Matrix:** Soil Gas

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Major Gases by EPA Method 3C				Batch ID: R10390		Analyst: SH
Carbon Dioxide	25.6	0.0500		%	1	10/17/2025 12:07:00 PM
Carbon Monoxide	ND	0.0500		%	1	10/17/2025 12:07:00 PM
Methane	ND	0.0500		%	1	10/17/2025 12:07:00 PM
Nitrogen	73.2	0.0500		%	1	10/17/2025 12:07:00 PM
Oxygen	1.27	0.0500		%	1	10/17/2025 12:07:00 PM
Hydrogen	ND	0.0500		%	1	10/17/2025 12:07:00 PM
BTU	ND			BTU/ft^3	1	10/17/2025 12:07:00 PM

Work Order: 2510235
CLIENT: Friedman & Bruya
Project: 510109

QC SUMMARY REPORT

Major Gases by EPA Method 3C

Sample ID: **LCS-R103884** SampType: **LCS** Units: **%** Prep Date: **10/16/2025** RunNo: **103884**
Client ID: **LCSW** Batch ID: **R103884** Analysis Date: **10/16/2025** SeqNo: **2167377**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	98.5	0.0500	100.0	0	98.5	90	110				
Carbon Monoxide	98.5	0.0500	100.0	0	98.5	90	110				
Methane	98.5	0.0500	100.0	0	98.5	90	110				
Nitrogen	100	0.0500	100.0	0	100	90	110				
Oxygen	100	0.0500	100.0	0	100	90	110				
Hydrogen	101	0.0500	100.0	0	101	90	110				

Sample ID: **2510235-001Arep** SampType: **REP** Units: **%** Prep Date: **10/16/2025** RunNo: **103884**
Client ID: **GP-2** Batch ID: **R103884** Analysis Date: **10/16/2025** SeqNo: **2167371**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	ND	0.0500						0		30	
Carbon Monoxide	ND	0.0500						0		30	
Methane	ND	0.0500						0		30	
Nitrogen	82.3	0.0500						82.28	0.00406	30	
Oxygen	17.7	0.0500						17.72	0.0189	30	
Hydrogen	ND	0.0500						0		30	
BTU	ND							0	0	30	

Sample ID: **LCS-R103901** SampType: **LCS** Units: **%** Prep Date: **10/17/2025** RunNo: **103901**
Client ID: **LCSW** Batch ID: **R103901** Analysis Date: **10/17/2025** SeqNo: **2167729**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	100	0.0500	100.0	0	100	90	110				
Carbon Monoxide	100	0.0500	100.0	0	100	90	110				
Methane	100	0.0500	100.0	0	100	90	110				
Nitrogen	99.5	0.0500	100.0	0	99.5	90	110				
Oxygen	99.9	0.0500	100.0	0	99.9	90	110				
Hydrogen	100	0.0500	100.0	0	100	90	110				

Work Order: 2510235
CLIENT: Friedman & Bruya
Project: 510109

QC SUMMARY REPORT

Major Gases by EPA Method 3C

Sample ID: **2510235-007Arep** SampType: **REP** Units: **%** Prep Date: **10/17/2025** RunNo: **103901**
Client ID: **T5S** Batch ID: **R103901** Analysis Date: **10/17/2025** SeqNo: **2167709**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	23.3	0.0500						23.27	0.0557	30	
Carbon Monoxide	ND	0.0500						0		30	
Methane	ND	0.0500						0		30	
Nitrogen	75.4	0.0500						75.42	0.00450	30	
Oxygen	1.32	0.0500						1.309	0.727	30	
Hydrogen	ND	0.0500						0		30	
BTU	ND							0	0	30	

Sample ID: **2510236-001Arep** SampType: **REP** Units: **%** Prep Date: **10/17/2025** RunNo: **103901**
Client ID: **BATCH** Batch ID: **R103901** Analysis Date: **10/17/2025** SeqNo: **2167727**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	33.0	0.0500						32.84	0.377	30	H
Carbon Monoxide	ND	0.0500						0		30	H
Methane	62.3	0.0500						62.45	0.196	30	H
Nitrogen	3.52	0.0500						3.520	0.0107	30	H
Oxygen	1.19	0.0500						1.191	0.179	30	H
Hydrogen	ND	0.0500						0		30	H
BTU	630							631.5	0.196	30	H

Sample ID: **2510073-003AREP** SampType: **REP** Units: **%** Prep Date: **10/17/2025** RunNo: **103901**
Client ID: **BATCH** Batch ID: **R103901** Analysis Date: **10/17/2025** SeqNo: **2167707**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon Dioxide	2.42	0.0500						2.426	0.0876	30	
Carbon Monoxide	ND	0.0500						0		30	
Methane	97.0	0.0500						97.06	0.0110	30	
Nitrogen	0.388	0.0500						0.3780	2.62	30	
Oxygen	0.139	0.0500						0.1363	1.97	30	
Hydrogen	ND	0.0500						0		30	
BTU	981							981.6	0.0110	30	

Work Order: 2510235
CLIENT: Friedman & Bruya
Project: 510109

QC SUMMARY REPORT

Major Gases by EPA Method 3C

Sample ID: **2510073-003AREP**	SampType: **REP**			Units: **%**		Prep Date: **10/17/2025**			RunNo: **103901**		
Client ID: **BATCH**	Batch ID: **R103901**					Analysis Date: **10/17/2025**			SeqNo: **2167707**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample Log-In Check List

Client Name:	**FB**	Work Order Number:	**2510235**
Logged by:	**Clare Griggs**	Date Received:	**10/8/2025 12:00:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Courier		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☐	No ☐	NA ☑
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2510235

Michael Erdahl

Friedman and Bruya, Inc.

5500 4th Ave S

Seattle, WA 98108

merdahl@friedmanandbruya.com

SUBCONTRACTER Alliance TG	
PROJECT NAME/NO. 510109	PO # F-502
REMARKS RETURN CANS & Brass Caps ~~EIM~~ EQuIS 4	

Page # 1 of 2

TURNAROUND TIME
☒ Standard ~~(2 Weeks)~~
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
Will call with instructions

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	3C Major Gasses	Notes
GP-2		9990	54	IA / (SG)	10/6/2025	-28.5	1145	-4	1151						X	
GP-3		9562	91	IA / (SG)	10/6/2025	-27.5	1106	-4	1111						X	
GP-20		3675	111	IA / (SG)	10/6/2025	-28	1042	-4	1048						X	
T3		8211	31	IA / (SG)	10/6/2025	-30	1114	-4	1121						X	
T4S		8346	307	IA / (SG)	10/6/2025	-28	937	-4	942						X	
T4D		9564	97	IA / (SG)	10/6/2025	-29	1006	-4	1006						X	
T5S		9988	255	IA / (SG)	10/6/2025	-28	1153	-4	1159						X	
T5D		9568	73	IA / (SG)	10/6/2025	-26	1218	-4	1223						X	

Friedman & Bruya, Inc.
5500 4th Ave S
Seattle, WA 98108
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		~~Michael Erdahl~~ Mia Golden	Friedman & Bruya	10/7/25	
Received by:		Jack Hawthorne		10/8/25	1200
Relinquished by:					
Received by:					

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

2510235

Michael Erdahl

Friedman and Bruya, Inc.

5500 4th Ave S

Seattle, WA 98108

merdahl@friedmanandbruya.com

SUBCONTRACTER: Alliance TG

PROJECT NAME/NO.: 510109

PO #: F-502

REMARKS: Return Cans & Brass Caps

~~EIM Equis~~

Page # 2 of 3

TURNAROUND TIME

☒ ~~Standard (2 Weeks)~~

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

SAMPLE INFORMATION										ANALYSIS REQUESTED						
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	APH	Chlorinated VOCs	Helium	3C Major Gasses	Notes
T6S		9882		IA / SG	10/6/2025	-30	1237	-4	1244						X	
T6D		8532		IA / SG	10/6/2025	-28.5	1255	-4	1300						X	
T7S		3677		IA / SG	10/6/2025	-27.5	1309	-4	1314						X	
T7D		3671		IA / SG	10/6/2025	-27.5	1332	-4	1338						X	
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												

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Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		~~Michael Erdahl~~ Alex Gelman	Friedman & Bruya	10/7/25	
Received by:		Jack Newthorne		10/8/25	1200
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 5, 2025

Ian Sutton, Project Manager
DTG Recycle
22745 29th Dr. SE, Ste 200
Bothell, WA 98021

Dear Mr Sutton:

Included are the results from the testing of material submitted on July 28, 2025 from the Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504 project. There are 18 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.

Michael Erdahl
Project Manager

Enclosures
c: ISutton@DTGrecycle.com, mbrady@parametrix.com
NAA0805R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 28, 2025 by Friedman & Bruya, Inc. from the DTG Recycle Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	DTG Recycle
507504 -01	T7-70-0725
507504 -02	T7-80-0725

The 8260D calibration standard exceeded the acceptance criteria for acetone. The compound was not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier. The results are not considered estimates.

The 8270E calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 08/05/25
Date Received: 07/28/25
Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504
Date Extracted: 07/29/25
Date Analyzed: 07/29/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
T7-70-0725 507504-01	50	102
T7-80-0725 507504-02	<5	104
Method Blank 05-1751 MB	<5	100

Date of Report: 08/05/25
Date Received: 07/28/25
Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504
Date Extracted: 07/29/25
Date Analyzed: 07/29/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
T7-70-0725 507504-01	1,600	2,100	110
T7-80-0725 507504-02	<50	<200	111
Method Blank 05-1887 MB	<50	<200	109

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

Client Sample ID:	T7-70-0725	Client:	DTG Recycle
Date Received:	07/28/25	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/31/25	Lab ID:	507504-01 1/5
Date Analyzed:	08/01/25	Data File:	080122.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	99	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<5	1,3-Dichloropropane	<0.5
Chloromethane	<5	Tetrachloroethene	<0.02
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<1	Chlorobenzene	<0.5
Trichlorofluoromethane	<5	Ethylbenzene	0.30
Acetone	<50 k	1,1,1,2-Tetrachloroethane	<0.5
1,1-Dichloroethene	<0.02	m,p-Xylene	0.099
Hexane	<2.5	o-Xylene	0.11
Methylene chloride	<4	Styrene	<0.5
Methyl t-butyl ether (MTBE)	<0.02	Isopropylbenzene	<0.5
trans-1,2-Dichloroethene	<0.02	Bromoform	<0.5
1,1-Dichloroethane	<0.02	n-Propylbenzene	<0.5
2,2-Dichloropropane	<0.5	Bromobenzene	<0.5
cis-1,2-Dichloroethene	<0.02	1,3,5-Trimethylbenzene	<0.5
Chloroform	<0.5	1,1,2,2-Tetrachloroethane	<0.5
2-Butanone (MEK)	<10 k	1,2,3-Trichloropropane	<0.5
1,2-Dichloroethane (EDC)	<0.03	2-Chlorotoluene	<0.5
1,1,1-Trichloroethane	<0.02	4-Chlorotoluene	<0.5
1,1-Dichloropropene	<0.5	tert-Butylbenzene	<0.5
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<0.5
Benzene	0.031	sec-Butylbenzene	<0.5
Trichloroethene	<0.02	p-Isopropyltoluene	<0.5
1,2-Dichloropropane	<0.5	1,3-Dichlorobenzene	<0.5
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<0.5
Dibromomethane	<0.5	1,2-Dichlorobenzene	<0.5
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<5
cis-1,3-Dichloropropene	<0.5	1,2,4-Trichlorobenzene	<2.5
Toluene	<0.08	Hexachlorobutadiene	<2.5
trans-1,3-Dichloropropene	<0.5	Naphthalene	4.8
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<2.5
2-Hexanone	<10		

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

Client Sample ID:	T7-80-0725	Client:	DTG Recycle
Date Received:	07/28/25	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/31/25	Lab ID:	507504-02 1/0.5
Date Analyzed:	08/01/25	Data File:	080121.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	104	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

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

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/31/25	Lab ID:	05-1869 mb 1/0.5
Date Analyzed:	07/31/25	Data File:	073122.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	84	120
Toluene-d8	106	73	128
4-Bromofluorobenzene	104	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T7-80-0725	Client:	DTG Recycle
Date Received:	07/28/25	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/29/25	Lab ID:	507504-02 1/5
Date Analyzed:	07/29/25	Data File:	072924.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	77	14	148
Phenol-d6	86	11	158
Nitrobenzene-d5	93	16	137
2-Fluorobiphenyl	90	46	122
2,4,6-Tribromophenol	102	17	154
Terphenyl-d14	102	31	167

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1 k
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5
Nitrobenzene	<0.05	4,6-Dinitro-2-methylphenol	<1
Isophorone	<0.05 k	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	<0.0025
Benzoic acid	<1	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	<0.0025
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/29/25	Lab ID:	05-1847 mb2 1/5
Date Analyzed:	07/29/25	Data File:	072919.D
Matrix:	Soil	Instrument:	GCMS12
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80	14	148
Phenol-d6	91	11	158
Nitrobenzene-d5	94	16	137
2-Fluorobiphenyl	97	46	122
2,4,6-Tribromophenol	92	17	154
Terphenyl-d14	107	31	167

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1 k
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5
Nitrobenzene	<0.05	4,6-Dinitro-2-methylphenol	<1
Isophorone	<0.05 k	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	<0.0025
Benzoic acid	<1	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	<0.0025
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T7-80-0725	Client:	DTG Recycle
Date Received:	07/28/25	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/29/25	Lab ID:	507504-02
Date Analyzed:	07/29/25	Data File:	507504-02.134
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.9
Barium	86
Cadmium	<1
Lead	1.7
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T7-80-0725	Client:	DTG Recycle
Date Received:	07/28/25	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/29/25	Lab ID:	507504-02 x5
Date Analyzed:	07/30/25	Data File:	507504-02 x5.100
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	8.6

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	NA	Project:	DTG Yakima LPL, F&BI 507504
Date Extracted:	07/29/25	Lab ID:	I5-650 mb
Date Analyzed:	07/29/25	Data File:	I5-650 mb.077
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Date of Report: 08/05/25
Date Received: 07/28/25
Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504

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

Laboratory Code: 507504-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	117	70-130

Date of Report: 08/05/25
Date Received: 07/28/25
Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504

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

Laboratory Code: 507456-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	21,000	100 b	80 b	64-136	22 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	100	78-121

Date of Report: 08/05/25
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Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504

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

Laboratory Code: 507566-02 1/0.5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	<0.5	56	52	10-142	7
Chloromethane	mg/kg (ppm)	2	<0.5	79	73	10-126	8
Vinyl chloride	mg/kg (ppm)	2	<0.002	85	79	10-138	7
Bromomethane	mg/kg (ppm)	2	<0.5	94	81	10-163	15
Chloroethane	mg/kg (ppm)	2	<0.1	78	74	10-176	5
Trichlorofluoromethane	mg/kg (ppm)	2	<0.5	83	78	10-176	6
Acetone	mg/kg (ppm)	10	<5	168 vo	162	10-163	4
1,1-Dichloroethene	mg/kg (ppm)	2	<0.002	127	121	10-160	5
Hexane	mg/kg (ppm)	2	<0.25	89	88	10-137	1
Methylene chloride	mg/kg (ppm)	2	<0.4	111	102	10-156	8
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	<0.002	90	87	21-145	3
trans-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	107	105	14-137	2
1,1-Dichloroethane	mg/kg (ppm)	2	<0.002	105	100	19-140	5
2,2-Dichloropropane	mg/kg (ppm)	2	<0.05	110	102	10-158	8
cis-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	99	95	25-135	4
Chloroform	mg/kg (ppm)	2	<0.05	94	93	21-145	1
2-Butanone (MEK)	mg/kg (ppm)	10	<1	116	111	19-147	4
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	<0.003	97	92	12-160	5
1,1,1-Trichloroethane	mg/kg (ppm)	2	<0.002	99	96	10-156	3
1,1-Dichloropropene	mg/kg (ppm)	2	<0.05	101	99	17-140	2
Carbon tetrachloride	mg/kg (ppm)	2	<0.05	99	95	9-164	4
Benzene	mg/kg (ppm)	2	<0.002	100	96	29-129	4
Trichloroethene	mg/kg (ppm)	2	<0.002	92	89	21-139	3
1,2-Dichloropropane	mg/kg (ppm)	2	<0.05	96	93	30-135	3
Bromodichloromethane	mg/kg (ppm)	2	<0.05	93	87	23-155	7
Dibromomethane	mg/kg (ppm)	2	<0.05	93	92	23-145	1
4-Methyl-2-pentanone	mg/kg (ppm)	10	<1	96	93	24-155	3
cis-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	96	97	28-144	1
Toluene	mg/kg (ppm)	2	<0.008	96	92	35-130	4
trans-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	97	94	26-149	3
1,1,2-Trichloroethane	mg/kg (ppm)	2	<0.05	96	91	10-205	5
2-Hexanone	mg/kg (ppm)	10	<1	109	104	15-166	5
1,3-Dichloropropane	mg/kg (ppm)	2	<0.05	96	93	31-137	3
Tetrachloroethene	mg/kg (ppm)	2	<0.002	95	93	20-133	2
Dibromochloromethane	mg/kg (ppm)	2	<0.05	91	90	28-150	1
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	<0.005	92	92	28-142	0
Chlorobenzene	mg/kg (ppm)	2	<0.05	95	91	32-129	4
Ethylbenzene	mg/kg (ppm)	2	<0.002	96	93	32-137	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	96	93	31-143	3
m,p-Xylene	mg/kg (ppm)	4	0.0098	95	93	34-136	2
o-Xylene	mg/kg (ppm)	2	0.0034	95	91	33-134	4
Styrene	mg/kg (ppm)	2	<0.05	95	93	35-137	2
Isopropylbenzene	mg/kg (ppm)	2	<0.05	95	91	31-142	4
Bromoform	mg/kg (ppm)	2	<0.05	92	89	21-156	3
n-Propylbenzene	mg/kg (ppm)	2	<0.05	95	93	23-146	2
Bromobenzene	mg/kg (ppm)	2	<0.05	90	91	34-130	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	<0.05	94	91	18-149	3
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	98	93	28-140	5
1,2,3-Trichloropropane	mg/kg (ppm)	2	<0.05	92	89	25-144	3
2-Chlorotoluene	mg/kg (ppm)	2	<0.05	93	91	31-134	2
4-Chlorotoluene	mg/kg (ppm)	2	<0.05	93	91	31-136	2
tert-Butylbenzene	mg/kg (ppm)	2	<0.05	94	91	30-137	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	<0.05	93	92	10-182	1
sec-Butylbenzene	mg/kg (ppm)	2	<0.05	94	90	23-145	4
p-Isopropyltoluene	mg/kg (ppm)	2	<0.05	95	92	21-149	3
1,3-Dichlorobenzene	mg/kg (ppm)	2	<0.05	92	89	30-131	3
1,4-Dichlorobenzene	mg/kg (ppm)	2	<0.05	92	90	29-129	2
1,2-Dichlorobenzene	mg/kg (ppm)	2	<0.05	93	87	31-132	7
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	<0.5	84	84	11-161	0
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	<0.25	89	87	22-142	2
Hexachlorobutadiene	mg/kg (ppm)	2	<0.25	94	89	10-142	5
Naphthalene	mg/kg (ppm)	2	<0.01	90	86	14-157	5
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	<0.25	90	84	20-144	7

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	53	10-146
Chloromethane	mg/kg (ppm)	2	68	27-133
Vinyl chloride	mg/kg (ppm)	2	69	22-139
Bromomethane	mg/kg (ppm)	2	74	10-201
Chloroethane	mg/kg (ppm)	2	68	10-163
Trichlorofluoromethane	mg/kg (ppm)	2	72	10-196
Acetone	mg/kg (ppm)	10	145	10-255
1,1-Dichloroethene	mg/kg (ppm)	2	109	47-128
Hexane	mg/kg (ppm)	2	79	43-142
Methylene chloride	mg/kg (ppm)	2	89	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	77	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2	94	64-132
1,1-Dichloroethane	mg/kg (ppm)	2	89	64-135
2,2-Dichloropropane	mg/kg (ppm)	2	87	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2	85	64-135
Chloroform	mg/kg (ppm)	2	80	61-139
2-Butanone (MEK)	mg/kg (ppm)	10	99	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	84	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	83	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	88	64-136
Carbon tetrachloride	mg/kg (ppm)	2	86	60-139
Benzene	mg/kg (ppm)	2	85	65-136
Trichloroethene	mg/kg (ppm)	2	81	63-139
1,2-Dichloropropane	mg/kg (ppm)	2	82	61-145
Bromodichloromethane	mg/kg (ppm)	2	77	57-126
Dibromomethane	mg/kg (ppm)	2	83	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	10	81	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2	81	65-143
Toluene	mg/kg (ppm)	2	84	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	81	65-131
1,1,2-Trichloroethane	mg/kg (ppm)	2	82	62-131
2-Hexanone	mg/kg (ppm)	10	94	33-152
1,3-Dichloropropane	mg/kg (ppm)	2	85	67-128
Tetrachloroethene	mg/kg (ppm)	2	82	68-128
Dibromochloromethane	mg/kg (ppm)	2	81	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	82	66-129
Chlorobenzene	mg/kg (ppm)	2	80	67-128
Ethylbenzene	mg/kg (ppm)	2	83	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	84	64-121
m,p-Xylene	mg/kg (ppm)	4	83	68-128
o-Xylene	mg/kg (ppm)	2	83	67-129
Styrene	mg/kg (ppm)	2	82	67-129
Isopropylbenzene	mg/kg (ppm)	2	82	68-128
Bromoform	mg/kg (ppm)	2	82	56-132
n-Propylbenzene	mg/kg (ppm)	2	82	68-129
Bromobenzene	mg/kg (ppm)	2	78	69-128
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	82	69-129
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	82	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	81	61-137
2-Chlorotoluene	mg/kg (ppm)	2	81	69-128
4-Chlorotoluene	mg/kg (ppm)	2	81	67-127
tert-Butylbenzene	mg/kg (ppm)	2	82	69-129
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	80	69-128
sec-Butylbenzene	mg/kg (ppm)	2	81	69-130
p-Isopropyltoluene	mg/kg (ppm)	2	82	69-130
1,3-Dichlorobenzene	mg/kg (ppm)	2	81	69-127
1,4-Dichlorobenzene	mg/kg (ppm)	2	80	68-126
1,2-Dichlorobenzene	mg/kg (ppm)	2	80	69-127
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	77	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	77	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	77	50-153
Naphthalene	mg/kg (ppm)	2	76	62-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	75	61-126

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Project: Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 507504

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

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Pyridine	mg/kg (ppm)	0.83	63	72	20-82	13
Phenol	mg/kg (ppm)	0.83	90	97	47-128	7
Bis(2-chloroethyl) ether	mg/kg (ppm)	0.83	87	93	35-131	7
2-Chlorophenol	mg/kg (ppm)	0.83	89	96	58-111	8
1,3-Dichlorobenzene	mg/kg (ppm)	0.83	83	92	47-109	10
1,4-Dichlorobenzene	mg/kg (ppm)	0.83	86	93	46-110	8
1,2-Dichlorobenzene	mg/kg (ppm)	0.83	83	92	50-110	10
Benzyl alcohol	mg/kg (ppm)	4.2	93	101	36-147	8
2,2'-Oxybis(1-chloropropane)	mg/kg (ppm)	0.83	88	94	54-113	7
2-Methylphenol	mg/kg (ppm)	0.83	91	98	60-114	7
Hexachloroethane	mg/kg (ppm)	0.83	84	95	45-111	12
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.83	93	102	70-130	9
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	0.83	94	98	66-112	4
Nitrobenzene	mg/kg (ppm)	0.83	97	103	62-114	6
Isophorone	mg/kg (ppm)	0.83	100	103	52-128	3
2-Nitrophenol	mg/kg (ppm)	0.83	99	109	55-129	10
2,4-Dimethylphenol	mg/kg (ppm)	0.83	93	100	53-119	7
Benzoic acid	mg/kg (ppm)	2.5	74	77	40-101	4
Bis(2-chloroethoxy)methane	mg/kg (ppm)	0.83	94	98	64-112	4
2,4-Dichlorophenol	mg/kg (ppm)	0.83	97	103	68-113	6
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.83	89	95	56-111	7
Naphthalene	mg/kg (ppm)	0.83	84	90	57-107	7
Hexachlorobutadiene	mg/kg (ppm)	0.83	94	100	49-119	6
4-Chloroaniline	mg/kg (ppm)	6.8	84	92	10-136	9
4-Chloro-3-methylphenol	mg/kg (ppm)	0.83	96	105	73-114	9
2-Methylnaphthalene	mg/kg (ppm)	0.83	86	94	63-112	9
1-Methylnaphthalene	mg/kg (ppm)	0.83	86	93	63-113	8
Hexachlorocyclopentadiene	mg/kg (ppm)	0.83	78	81	35-136	4
2,4,6-Trichlorophenol	mg/kg (ppm)	0.83	100	104	66-122	4
2,4,5-Trichlorophenol	mg/kg (ppm)	0.83	103	110	64-123	7
2-Chloronaphthalene	mg/kg (ppm)	0.83	89	95	69-110	7
2-Nitroaniline	mg/kg (ppm)	4.2	82	85	46-148	4
Dimethyl phthalate	mg/kg (ppm)	0.83	93	101	71-116	8
Acenaphthylene	mg/kg (ppm)	0.83	91	97	70-115	6
2,6-Dinitrotoluene	mg/kg (ppm)	0.83	99	107	64-132	8
Acenaphthene	mg/kg (ppm)	0.83	88	92	66-112	4
2,4-Dinitrophenol	mg/kg (ppm)	1.7	88	98	62-135	11
Dibenzofuran	mg/kg (ppm)	0.83	89	95	63-117	7
2,4-Dinitrotoluene	mg/kg (ppm)	0.83	103	114	52-140	10
4-Nitrophenol	mg/kg (ppm)	1.7	105	110	16-187	5
Diethyl phthalate	mg/kg (ppm)	0.83	92	103	64-120	11
Fluorene	mg/kg (ppm)	0.83	91	99	67-117	8
4-Chlorophenyl phenyl ether	mg/kg (ppm)	0.83	95	101	70-130	6
N-Nitrosodiphenylamine	mg/kg (ppm)	0.83	92	97	61-118	5
4-Nitroaniline	mg/kg (ppm)	4.2	55	61	28-121	10
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.83	96	104	65-157	8
Hexachlorobenzene	mg/kg (ppm)	0.83	95	103	69-116	8
Pentachlorophenol	mg/kg (ppm)	0.83	96	105	63-144	9
Phenanthrene	mg/kg (ppm)	0.83	86	95	70-113	10
Anthracene	mg/kg (ppm)	0.83	90	96	72-113	6
Carbazole	mg/kg (ppm)	0.83	87	95	63-122	9
Di-n-butyl phthalate	mg/kg (ppm)	0.83	94	105	48-128	11
Fluoranthene	mg/kg (ppm)	0.83	93	102	75-120	9
Pyrene	mg/kg (ppm)	0.83	93	98	73-113	5
Benzyl butyl phthalate	mg/kg (ppm)	0.83	97	105	64-135	8
Benz(a)anthracene	mg/kg (ppm)	0.83	92	99	76-114	7
Chrysene	mg/kg (ppm)	0.83	91	97	79-109	6
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	0.83	95	103	65-124	8
Di-n-octyl phthalate	mg/kg (ppm)	0.83	100	110	65-138	10
Benzo(a)pyrene	mg/kg (ppm)	0.83	93	99	68-120	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	95	102	67-128	7
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	93	100	80-119	7
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	93	97	67-129	4
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	96	99	67-128	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	95	97	65-130	2

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

Laboratory Code: 507511-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	12.3	62 b	69 b	75-125	11 b
Barium	mg/kg (ppm)	50	65.4	82 b	92 b	75-125	11 b
Cadmium	mg/kg (ppm)	10	<5	106	107	75-125	1
Chromium	mg/kg (ppm)	50	10.4	97 b	100 b	75-125	3 b
Lead	mg/kg (ppm)	50	16.3	96 b	100 b	75-125	4 b
Mercury	mg/kg (ppm	5	<5	102	107	75-125	5
Selenium	mg/kg (ppm)	5	<5	90	94	75-125	4
Silver	mg/kg (ppm)	10	<5	103	104	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	95	80-120
Barium	mg/kg (ppm)	50	87	80-120
Cadmium	mg/kg (ppm)	10	104	80-120
Chromium	mg/kg (ppm)	50	96	80-120
Lead	mg/kg (ppm)	50	93	80-120
Mercury	mg/kg (ppm)	5	94	80-120
Selenium	mg/kg (ppm)	5	92	80-120
Silver	mg/kg (ppm)	10	102	80-120

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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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 – 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.

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.

507504

SAMPLE CHAIN OF CUSTODY 07/28/25 N2

Report To Ian Sutton

Company DTG Recycle

Address 22745 29th Dr. SE, Ste 200

City, State, ZIP Bothell, WA 98021

Phone _____ Email ISutton@DTGrecycle.com
mbrady@parametrix.com

SAMPLERS (*signature*) Sally Nguyen

PROJECT NAME: Rocky Top Environmental; DTG Yakima LPL

PO #: 553-8472-010 13.02

REMARKS: Project Specific RLs - Yes / No

INVOICE TO: DTG

TURNAROUND TIME: (Standard Turnaround) RUSH _____ Rush charges authorized by: _____

SAMPLE DISPOSAL: (Dispose after 30 days) Archive Samples Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Gx	VOCs EPA 8260	NWTPH-Dx	SVOCs EPA 8270	RCRA 8 Metals							Notes
ANALYSES REQUESTED																	
T4				Soil	5	X	X	X									
T4				Soil	6	X	X	X	X	X							
T5				Soil	5	X	X	X									
T5				Soil	6	X	X	X	X	X							
T6				Soil	5	X	X	X									
T6				Soil	6	X	X	X	X	X							
T7-70-0725	01A-E	7/25	1219	Soil	5	X	X	X									
T7-80-0725	02A-F	7/25	1331	Soil	6	X	X	X	X	X							
T13				Soil	5	X	X	X									Samples received at 4 °C
T13				Soil	6	X	X	X	X	X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Mike Brady	Parametrix	7/28	12:02
Received by:	Liz Webber-Bruya	F?B	7/28/25	1202
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 507504 CLIENT PMX INITIALS/ DATE: ENB 7/28

If custody seals are present on cooler, are they intact? ☑ NA ☐ YES ☐ NO

Cooler/Sample temperature 4 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☑ YES ☐ NO

How did samples arrive?
☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ Date: ENB 7/28
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 3 days

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? ☑ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☑ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes ☐ No		☐ Not on COC/label
Date Sampled	☑ Yes ☐ No		☐ Not on COC/label
Time Sampled	☑ Yes ☐ No		☐ Not on COC/label
# of Containers	☑ Yes ☐ No		
Relinquished	☑ Yes ☐ No		
Requested analysis	☑ Yes ☐ On Hold		

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☑ NA ☐ YES ☐ NO

Number of unused TO15 canisters** _____ **Number of unused TO17 tubes** _____
**Fill out Green manifolds billing sheet

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 21, 2025

Ian Sutton, Project Manager
DTG Recycle
22745 29th Dr SE Ste 200
Bothell, WA 98021

Dear Mr Sutton:

Included are the results from the testing of material submitted on August 13, 2025 from the Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 508198 project. There are 19 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.

Michael Erdahl
Project Manager

Enclosures
c: Mike Brady (PMX)
NAA0821R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 13, 2025 by Friedman & Bruya, Inc. from the DTG Recycle Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 508198 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	DTG Recycle
508198 -01	T6-20-0809
508198 -02	T6-55-0809

The 8260D calibration standard exceeded the acceptance criteria for several compounds. The compounds were not detected, therefore this did not represent an out of control condition, and were qualified with a "k" qualifier. The results are not considered estimates.

The 8270E calibration standard did not meet the acceptance criteria for hexachlorocyclopentadiene and 4-nitroaniline. The data were flagged accordingly.

All other quality control requirements were acceptable.

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198
Date Extracted: 08/19/25
Date Analyzed: 08/19/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
T6-20-0809 508198-01	15	92
T6-55-0809 508198-02	<5	85
Method Blank 05-1951 MB2	<5	88

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198
Date Extracted: 08/14/25
Date Analyzed: 08/14/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
T6-20-0809 508198-01	140 x	660	101
T6-55-0809 508198-02	<50	<200	92
Method Blank 05-2032 MB	<50	<200	95

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

Client Sample ID:	T6-20-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/18/25	Lab ID:	508198-01 1/0.5
Date Analyzed:	08/18/25	Data File:	081813.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	104	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5 k	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5 k	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.079
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.031
Hexane	<0.25	o-Xylene	0.042
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.16
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	0.068
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.15
Benzene	0.0062	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	0.10
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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.0094	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	10 ve
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	T6-20-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/18/25	Lab ID:	508198-01 1/10
Date Analyzed:	08/18/25	Data File:	081822.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	103	57	146

Compounds:	Concentration mg/kg (ppm)
Naphthalene	10

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

Client Sample ID:	T6-55-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/18/25	Lab ID:	508198-02 1/0.5
Date Analyzed:	08/18/25	Data File:	081812.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	84	120
Toluene-d8	104	73	128
4-Bromofluorobenzene	101	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5 k	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5 k	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Extracted:	08/18/25	Lab ID:	05-2026 mb 1/0.5
Date Analyzed:	08/18/25	Data File:	081810.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	100	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5 k	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.002
Vinyl chloride	<0.002	Dibromochloromethane	<0.05
Bromomethane	<0.5 k	1,2-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5 k	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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 k	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T6-55-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/14/25	Lab ID:	508198-02 1/5
Date Analyzed:	08/15/25	Data File:	081509.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	DBA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54	23	125
Phenol-d6	64	31	125
Nitrobenzene-d5	59	24	133
2-Fluorobiphenyl	69	42	120
2,4,6-Tribromophenol	77	22	144
Terphenyl-d14	86	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5 ca
Nitrobenzene	<0.05	4,6-Dinitro-2-methylphenol	<1
Isophorone	<0.05	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	0.0092
Benzoic acid	<1	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	0.0031
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Extracted:	08/14/25	Lab ID:	05-2029 mb2 1/5
Date Analyzed:	08/14/25	Data File:	081407.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	DBA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	80	23	125
Phenol-d6	87	31	125
Nitrobenzene-d5	85	24	133
2-Fluorobiphenyl	88	42	120
2,4,6-Tribromophenol	76	22	144
Terphenyl-d14	96	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1 ca
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5 ca
Nitrobenzene	<0.05	4,6-Dinitro-2-methylphenol	<1 ca
Isophorone	<0.05	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	<0.0025
Benzoic acid	<1 ca	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	<0.0025
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T6-55-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/14/25	Lab ID:	508198-02
Date Analyzed:	08/14/25	Data File:	508198-02.101
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.0
Barium	110
Cadmium	<1
Lead	2.7
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T6-55-0809	Client:	DTG Recycle
Date Received:	08/13/25	Project:	Rocky Top Environmental
Date Extracted:	08/14/25	Lab ID:	508198-02 x5
Date Analyzed:	08/14/25	Data File:	508198-02 x5.211
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	<5

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	NA	Project:	Rocky Top Environmental
Date Extracted:	08/14/25	Lab ID:	I5-702 mb2
Date Analyzed:	08/14/25	Data File:	I5-702 mb2.100
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: 508161-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	87	70-130

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: 507447-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	30,000	200 b	210 b	53-141	5 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	108	71-126

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: 508198-02 1/0.5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	<0.5	51	47	10-89	8
Chloromethane	mg/kg (ppm)	2	<0.5	74	65	22-107	13
Vinyl chloride	mg/kg (ppm)	2	<0.002	81	79	28-122	2
Bromomethane	mg/kg (ppm)	2	<0.5	56	58	24-137	4
Chloroethane	mg/kg (ppm)	2	<0.1	77	67	35-125	14
Trichlorofluoromethane	mg/kg (ppm)	2	<0.5	82	83	35-113	1
Acetone	mg/kg (ppm)	10	<5	135	115	50-150	16
1,1-Dichloroethene	mg/kg (ppm)	2	<0.002	119	117	50-150	2
Hexane	mg/kg (ppm)	2	<0.25	83	82	50-150	1
Methylene chloride	mg/kg (ppm)	2	<0.4	90	88	50-150	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	<0.002	92	91	50-150	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	98	98	50-150	0
1,1-Dichloroethane	mg/kg (ppm)	2	<0.002	99	99	50-150	0
2,2-Dichloropropane	mg/kg (ppm)	2	<0.05	115	121	50-150	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	90	90	50-150	0
Chloroform	mg/kg (ppm)	2	<0.05	89	92	50-150	3
2-Butanone (MEK)	mg/kg (ppm)	10	<1	116	99	50-150	16
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	<0.003	97	96	50-150	1
1,1,1-Trichloroethane	mg/kg (ppm)	2	<0.002	99	99	50-150	0
1,1-Dichloropropene	mg/kg (ppm)	2	<0.05	91	91	50-150	0
Carbon tetrachloride	mg/kg (ppm)	2	<0.05	97	95	50-150	2
Benzene	mg/kg (ppm)	2	<0.002	94	94	50-150	0
Trichloroethene	mg/kg (ppm)	2	<0.002	88	88	50-150	0
1,2-Dichloropropane	mg/kg (ppm)	2	<0.05	81	81	50-150	0
Bromodichloromethane	mg/kg (ppm)	2	<0.05	84	85	50-150	1
Dibromomethane	mg/kg (ppm)	2	<0.05	86	84	50-150	2
4-Methyl-2-pentanone	mg/kg (ppm)	10	<1	88	82	50-150	7
cis-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	84	82	50-150	2
Toluene	mg/kg (ppm)	2	<0.008	88	91	50-150	3
trans-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	79	84	50-150	6
1,1,2-Trichloroethane	mg/kg (ppm)	2	<0.05	85	86	50-150	1
2-Hexanone	mg/kg (ppm)	10	<1	96	85	50-150	12
1,3-Dichloropropane	mg/kg (ppm)	2	<0.05	81	82	50-150	1
Tetrachloroethene	mg/kg (ppm)	2	<0.002	85	87	50-150	2
Dibromochloromethane	mg/kg (ppm)	2	<0.05	76	76	50-150	0
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	<0.005	87	88	50-150	1
Chlorobenzene	mg/kg (ppm)	2	<0.05	81	83	50-150	2
Ethylbenzene	mg/kg (ppm)	2	<0.002	90	92	50-150	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	77	81	50-150	5
m,p-Xylene	mg/kg (ppm)	4	<0.004	88	90	50-150	2
o-Xylene	mg/kg (ppm)	2	<0.002	88	90	50-150	2
Styrene	mg/kg (ppm)	2	<0.05	80	82	50-150	2
Isopropylbenzene	mg/kg (ppm)	2	<0.05	80	81	50-150	1
Bromoform	mg/kg (ppm)	2	<0.05	73	75	50-150	3
n-Propylbenzene	mg/kg (ppm)	2	<0.05	86	88	50-150	2
Bromobenzene	mg/kg (ppm)	2	<0.05	83	82	50-150	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	<0.05	85	85	50-150	0
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	84	82	50-150	2
1,2,3-Trichloropropane	mg/kg (ppm)	2	<0.05	93	92	50-150	1
2-Chlorotoluene	mg/kg (ppm)	2	<0.05	83	84	50-150	1
4-Chlorotoluene	mg/kg (ppm)	2	<0.05	84	83	50-150	1
tert-Butylbenzene	mg/kg (ppm)	2	<0.05	82	85	50-150	4
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	<0.05	82	83	50-150	1
sec-Butylbenzene	mg/kg (ppm)	2	<0.05	85	87	50-150	2
p-Isopropyltoluene	mg/kg (ppm)	2	<0.05	84	85	50-150	1
1,3-Dichlorobenzene	mg/kg (ppm)	2	<0.05	83	84	50-150	1
1,4-Dichlorobenzene	mg/kg (ppm)	2	<0.05	85	84	50-150	1
1,2-Dichlorobenzene	mg/kg (ppm)	2	<0.05	80	82	50-150	2
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	<0.5	84	83	50-150	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	<0.25	79	78	50-150	1
Hexachlorobutadiene	mg/kg (ppm)	2	<0.25	80	80	50-150	0
Naphthalene	mg/kg (ppm)	2	<0.01	76	76	50-150	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	<0.25	74	74	50-150	0

Date of Report: 08/21/25
Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	64	10-150
Chloromethane	mg/kg (ppm)	2	74	21-140
Vinyl chloride	mg/kg (ppm)	2	91	35-135
Bromomethane	mg/kg (ppm)	2	58	20-151
Chloroethane	mg/kg (ppm)	2	69	21-147
Trichlorofluoromethane	mg/kg (ppm)	2	86	47-143
Acetone	mg/kg (ppm)	10	122	13-169
1,1-Dichloroethene	mg/kg (ppm)	2	122	49-138
Hexane	mg/kg (ppm)	2	82	61-141
Methylene chloride	mg/kg (ppm)	2	93	25-146
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	94	65-129
trans-1,2-Dichloroethene	mg/kg (ppm)	2	101	62-126
1,1-Dichloroethane	mg/kg (ppm)	2	102	64-131
2,2-Dichloropropane	mg/kg (ppm)	2	113	76-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2	94	62-127
Chloroform	mg/kg (ppm)	2	92	67-129
2-Butanone (MEK)	mg/kg (ppm)	10	117	19-171
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	100	73-123
1,1,1-Trichloroethane	mg/kg (ppm)	2	101	66-125
1,1-Dichloropropene	mg/kg (ppm)	2	97	70-131
Carbon tetrachloride	mg/kg (ppm)	2	97	53-135
Benzene	mg/kg (ppm)	2	98	70-130
Trichloroethene	mg/kg (ppm)	2	94	62-116
1,2-Dichloropropane	mg/kg (ppm)	2	83	70-130
Bromodichloromethane	mg/kg (ppm)	2	87	70-130
Dibromomethane	mg/kg (ppm)	2	88	70-130
4-Methyl-2-pentanone	mg/kg (ppm)	10	83	64-137
cis-1,3-Dichloropropene	mg/kg (ppm)	2	86	68-137
Toluene	mg/kg (ppm)	2	93	70-130
trans-1,3-Dichloropropene	mg/kg (ppm)	2	85	70-130
1,1,2-Trichloroethane	mg/kg (ppm)	2	88	70-130
2-Hexanone	mg/kg (ppm)	10	87	55-145
1,3-Dichloropropane	mg/kg (ppm)	2	87	70-130
Tetrachloroethene	mg/kg (ppm)	2	88	69-131
Dibromochloromethane	mg/kg (ppm)	2	79	61-137
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	90	70-130
Chlorobenzene	mg/kg (ppm)	2	86	70-130
Ethylbenzene	mg/kg (ppm)	2	94	70-130
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	85	56-134
m,p-Xylene	mg/kg (ppm)	4	91	70-130
o-Xylene	mg/kg (ppm)	2	92	70-130
Styrene	mg/kg (ppm)	2	85	70-130
Isopropylbenzene	mg/kg (ppm)	2	85	67-131
Bromoform	mg/kg (ppm)	2	78	70-130
n-Propylbenzene	mg/kg (ppm)	2	90	70-130
Bromobenzene	mg/kg (ppm)	2	87	70-130
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	88	70-130
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	81	70-130
1,2,3-Trichloropropane	mg/kg (ppm)	2	98	70-130
2-Chlorotoluene	mg/kg (ppm)	2	87	70-130
4-Chlorotoluene	mg/kg (ppm)	2	86	70-130
tert-Butylbenzene	mg/kg (ppm)	2	87	70-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	86	70-130
sec-Butylbenzene	mg/kg (ppm)	2	88	68-131
p-Isopropyltoluene	mg/kg (ppm)	2	87	70-130
1,3-Dichlorobenzene	mg/kg (ppm)	2	86	70-130
1,4-Dichlorobenzene	mg/kg (ppm)	2	86	70-130
1,2-Dichlorobenzene	mg/kg (ppm)	2	85	70-130
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	88	70-130
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	81	66-140
Hexachlorobutadiene	mg/kg (ppm)	2	82	67-141
Naphthalene	mg/kg (ppm)	2	79	69-119
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	78	66-138

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Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Pyridine	mg/kg (ppm)	0.83	51	55	20-82	8
Phenol	mg/kg (ppm)	0.83	78	77	47-128	1
Bis(2-chloroethyl) ether	mg/kg (ppm)	0.83	75	73	35-131	3
2-Chlorophenol	mg/kg (ppm)	0.83	83	79	58-111	5
1,3-Dichlorobenzene	mg/kg (ppm)	0.83	76	74	47-109	3
1,4-Dichlorobenzene	mg/kg (ppm)	0.83	82	78	46-110	5
1,2-Dichlorobenzene	mg/kg (ppm)	0.83	80	77	50-110	4
Benzyl alcohol	mg/kg (ppm)	4.2	87	88	36-147	1
2,2'-Oxybis(1-chloropropane)	mg/kg (ppm)	0.83	83	81	54-113	2
2-Methylphenol	mg/kg (ppm)	0.83	84	82	60-114	2
Hexachloroethane	mg/kg (ppm)	0.83	79	76	45-111	4
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.83	87	88	70-130	1
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	0.83	85	86	66-112	1
Nitrobenzene	mg/kg (ppm)	0.83	88	83	62-114	6
Isophorone	mg/kg (ppm)	0.83	92	91	52-128	1
2-Nitrophenol	mg/kg (ppm)	0.83	81	81	55-129	0
2,4-Dimethylphenol	mg/kg (ppm)	0.83	82	83	53-119	1
Benzoic acid	mg/kg (ppm)	2.5	59	63	40-101	7
Bis(2-chloroethoxy)methane	mg/kg (ppm)	0.83	90	88	64-112	2
2,4-Dichlorophenol	mg/kg (ppm)	0.83	85	84	68-113	1
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.83	83	78	56-111	6
Naphthalene	mg/kg (ppm)	0.83	82	80	57-107	2
Hexachlorobutadiene	mg/kg (ppm)	0.83	86	78	49-119	10
4-Chloroaniline	mg/kg (ppm)	6.8	71	69	10-136	3
4-Chloro-3-methylphenol	mg/kg (ppm)	0.83	91	95	73-114	4
2-Methylnaphthalene	mg/kg (ppm)	0.83	88	91	63-112	3
1-Methylnaphthalene	mg/kg (ppm)	0.83	86	89	63-113	3
Hexachlorocyclopentadiene	mg/kg (ppm)	0.83	62	63	35-136	2
2,4,6-Trichlorophenol	mg/kg (ppm)	0.83	82	82	66-122	0
2,4,5-Trichlorophenol	mg/kg (ppm)	0.83	84	88	64-123	5
2-Chloronaphthalene	mg/kg (ppm)	0.83	83	83	69-110	0
2-Nitroaniline	mg/kg (ppm)	4.2	73	73	46-148	0
Dimethyl phthalate	mg/kg (ppm)	0.83	94	93	71-116	1
Acenaphthylene	mg/kg (ppm)	0.83	88	89	70-115	1
2,6-Dinitrotoluene	mg/kg (ppm)	0.83	95	102	64-132	7
Acenaphthene	mg/kg (ppm)	0.83	85	85	66-112	0
2,4-Dinitrophenol	mg/kg (ppm)	1.7	84	93	62-135	10
Dibenzofuran	mg/kg (ppm)	0.83	89	92	63-117	3
2,4-Dinitrotoluene	mg/kg (ppm)	0.83	105	108	52-140	3
4-Nitrophenol	mg/kg (ppm)	1.7	101	102	16-187	1
Diethyl phthalate	mg/kg (ppm)	0.83	94	101	64-120	7
Fluorene	mg/kg (ppm)	0.83	93	98	67-117	5
4-Chlorophenyl phenyl ether	mg/kg (ppm)	0.83	89	93	70-130	4
N-Nitrosodiphenylamine	mg/kg (ppm)	0.83	78	78	61-118	0
4-Nitroaniline	mg/kg (ppm)	4.2	64	68	28-121	6
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.83	89	91	65-157	2
Hexachlorobenzene	mg/kg (ppm)	0.83	86	85	69-116	1
Pentachlorophenol	mg/kg (ppm)	0.83	83	92	63-144	10
Phenanthrene	mg/kg (ppm)	0.83	85	86	70-113	1
Anthracene	mg/kg (ppm)	0.83	86	88	72-113	2
Carbazole	mg/kg (ppm)	0.83	71	74	63-122	4
Di-n-butyl phthalate	mg/kg (ppm)	0.83	90	94	48-128	4
Fluoranthene	mg/kg (ppm)	0.83	99	100	75-120	1
Pyrene	mg/kg (ppm)	0.83	87	89	73-113	2
Benzyl butyl phthalate	mg/kg (ppm)	0.83	90	97	64-135	7
Benz(a)anthracene	mg/kg (ppm)	0.83	92	93	76-114	1
Chrysene	mg/kg (ppm)	0.83	89	90	79-109	1
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	0.83	82	87	65-124	6
Di-n-octyl phthalate	mg/kg (ppm)	0.83	100	104	65-138	4
Benzo(a)pyrene	mg/kg (ppm)	0.83	90	92	68-120	2
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	92	93	67-128	1
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	91	91	80-119	0
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	105	105	67-129	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	102	104	67-128	2
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	98	99	65-130	1

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Date Received: 08/13/25
Project: Rocky Top Environmental DTG Yakima LPL, F&BI 508198

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

Laboratory Code: 508191-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	6.76	75 b	854 b	75-125	168 b
Barium	mg/kg (ppm)	50	38.5	84 b	103 b	75-125	20 b
Cadmium	mg/kg (ppm)	10	<1	92	97	75-125	5
Chromium	mg/kg (ppm)	50	11.6	81 b	84 b	75-125	4 b
Lead	mg/kg (ppm)	50	4.49	88	86	75-125	2
Mercury	mg/kg (ppm	5	<1	95	93	75-125	2
Selenium	mg/kg (ppm)	5	<1	91	95	75-125	4
Silver	mg/kg (ppm)	10	<1	93	96	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	91	80-120
Barium	mg/kg (ppm)	50	89	80-120
Cadmium	mg/kg (ppm)	10	90	80-120
Chromium	mg/kg (ppm)	50	87	80-120
Lead	mg/kg (ppm)	50	88	80-120
Mercury	mg/kg (ppm)	5	91	80-120
Selenium	mg/kg (ppm)	5	92	80-120
Silver	mg/kg (ppm)	10	93	80-120

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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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 – 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.

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.

508198

SAMPLE CHAIN OF CUSTODY

08/13/25

N1

Page # _____ of _____

Report To Ian Sutton

Company DTG Recycle

Address 22745 29th Dr. SE, Ste 200

City, State, ZIP Bothell, WA 98021

Phone _____ Email ISutton@DTGrecycle.com

SAMPLERS (*signature*)

PROJECT NAME: Rocky Top Environmental / DTG Yakima LPL

PO #: 553-8472-010 13.02

REMARKS

Project Specific RLs - Yes / No

INVOICE TO

TURNAROUND TIME
Standard Turnaround
RUSH _____
Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Gx	VOCs EPA 8260	NWTPH-Dx	SVOCs EPA 8270	RCRA 8 Metals							Notes
ANALYSES REQUESTED																	
~~T4-~~				~~Soil~~	~~5~~	~~X~~	~~X~~	~~X~~									
~~T4-~~				~~Soil~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~							
~~T5-~~				~~Soil~~	~~5~~	~~X~~	~~X~~	~~X~~									
~~T5~~				~~Soil~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~							
T6-20-0809	01A-E	8/9/25	1430	Soil	5	X	X	X									
T6-55-0809	02A-F	8/9/25	1410	Soil	6	X	X	X	X	X							
T7-				Soil	5	X	X	X									
~~T7~~				~~Soil~~	~~6~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~							
T13-				Soil	5	X	X	X									
T13-				Soil	6	X	X	X	X	X							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Bourgeois	PMX	8/13/25	1335
Received by:	Nhan Phan	FLBI	8/13/25	1335
Relinquished by:				
Received by:		Samples received at 24 °C		

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 508198 CLIENT DTG ~~Ryoko~~ Recycle INITIALS/ DATE: (NP) 8/13/25

If custody seals are present on cooler, are they intact? ☑ NA ☐ YES ☐ NO

Cooler/Sample temperature 24 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☐ YES ☑ NO

How did samples arrive?
☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ Date: (NP) 8/13
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 4 days

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? ☑ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☑ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes ☐ No	☐ Not on COC/label
Date Sampled	☑ Yes ☐ No	☐ Not on COC/label
Time Sampled	☑ Yes ☐ No	☐ Not on COC/label
# of Containers	☑ Yes ☐ No	
Relinquished	☑ Yes ☐ No	
Requested analysis	☑ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☑ NA ☐ YES ☐ NO

Number of unused TO15 canisters** _____ **Number of unused TO17 tubes** _____
**Fill out Green manifolds billing sheet

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

August 29, 2025

Ian Sutton, Project Manager
DTG Recycle
22745 29th Dr. SE Ste 200
Bothell, WA 98021

Dear Mr Sutton:

Included are the results from the testing of material submitted on August 22, 2025 from the Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 508382 project. There are 34 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.

Michael Erdahl
Project Manager

Enclosures
c: Mike Brady (Parametrix)
NAA0829R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on August 22, 2025 by Friedman & Bruya, Inc. from the DTG Recycle Rocky Top Environmental DTG Yakima LPL 553-8472-010 13.02, F&BI 508382 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	DTG Recycle
508382 -01	T4-20-0821
508382 -02	T4-48-0821
508382 -03	T5-25-0819
508382 -04	T5-58-0819
508382 -05	T13-65-0819
508382 -06	Trip Blank

The 8260D and 8270E calibration standard did not meet the acceptance criteria for several analytes. The data were flagged accordingly.

Several 8270E compounds did not meet the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382
Date Extracted: 08/26/25
Date Analyzed: 08/27/25

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

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
Trip Blank 508382-06	<100	105
Method Blank 05-2127 MB	<100	100

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382
Date Extracted: 08/27/25
Date Analyzed: 08/27/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
T4-20-0821 508382-01	<5	98
T4-48-0821 508382-02	<5	96
T5-25-0819 508382-03	53	102
T5-58-0819 508382-04	15	99
T13-65-0819 508382-05	8.7	96
Method Blank 05-2128 MB	<5	90

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382
Date Extracted: 08/25/25
Date Analyzed: 08/25/25

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
T4-20-0821 508382-01	<50	<200	104
T4-48-0821 508382-02	<50	<200	109
T5-25-0819 508382-03	1,100 x	4,800	108
T5-58-0819 508382-04	<50	<200	103
T13-65-0819 508382-05	<50	<200	101
Method Blank 05-2159 MB	<50	<200	105

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank ht	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-06
Date Analyzed:	08/25/25	Data File:	082530.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	105	68	139
4-Bromofluorobenzene	105	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<0.5
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5 k	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.05	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	05-2100 mb
Date Analyzed:	08/25/25	Data File:	082509.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	105	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<0.5
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<0.01
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 ca	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.05	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

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

Client Sample ID:	T4-20-0821	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	508382-01 1/0.5
Date Analyzed:	08/26/25	Data File:	082620.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.0068
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.0099
Hexane	<0.25	o-Xylene	0.0034
Methylene chloride	<0.4	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)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	0.075	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.013	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	T4-48-0821	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	508382-02 1/0.5
Date Analyzed:	08/26/25	Data File:	082621.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	104	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	T5-25-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	508382-03 1/0.5
Date Analyzed:	08/27/25	Data File:	082731.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	IJL

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	0.94
Acetone	<5 ca	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.35
Hexane	<0.25	o-Xylene	0.27
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.78
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	0.13
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	0.16
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.25
Benzene	0.032	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	0.54
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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.24	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.24
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1		

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

Client Sample ID:	T5-58-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	508382-04 1/0.5
Date Analyzed:	08/26/25	Data File:	082622.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	100	73	128
4-Bromofluorobenzene	102	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	1.2
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.33
Hexane	<0.25	o-Xylene	0.21
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.88
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	0.12
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	0.12
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.20
Benzene	0.15	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	0.41
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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.30	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.071
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	T13-65-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	508382-05 1/0.5
Date Analyzed:	08/26/25	Data File:	082623.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	98	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	1.1
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	0.32
Hexane	<0.25	o-Xylene	0.20
Methylene chloride	<0.4	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.002	Isopropylbenzene	0.94
trans-1,2-Dichloroethene	<0.002	Bromoform	<0.05
1,1-Dichloroethane	<0.002	n-Propylbenzene	0.11
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.002	1,3,5-Trimethylbenzene	0.11
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.18
Benzene	0.085	sec-Butylbenzene	<0.05
Trichloroethene	<0.002	p-Isopropyltoluene	0.35
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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	0.20	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	0.028
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

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

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Extracted:	08/26/25	Lab ID:	05-2105 mb 1/0.5
Date Analyzed:	08/26/25	Data File:	082610.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	84	120
Toluene-d8	101	73	128
4-Bromofluorobenzene	102	57	146

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<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-Dibromoethane (EDB)	<0.005
Chloroethane	<0.1	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.002
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.002	m,p-Xylene	<0.004
Hexane	<0.25	o-Xylene	<0.002
Methylene chloride	<0.4	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)	<0.003	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.002	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.002	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-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.008	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.01
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<1 k		

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T4-48-0821	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-02 1/5
Date Analyzed:	08/25/25	Data File:	082517.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	23	125
Phenol-d6	65	31	125
Nitrobenzene-d5	72	24	133
2-Fluorobiphenyl	61	42	120
2,4,6-Tribromophenol	60	22	144
Terphenyl-d14	84	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5 ca
Nitrobenzene	<0.05 k	4,6-Dinitro-2-methylphenol	<1 ca
Isophorone	<0.05	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5 ca	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	<0.0025
Benzoic acid	<1 ca	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	<0.0025
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25 ca
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T5-58-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-04 1/50
Date Analyzed:	08/26/25	Data File:	082624.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	DBA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47 d	23	125
Phenol-d6	54 d	31	125
Nitrobenzene-d5	49 d	24	133
2-Fluorobiphenyl	57 d	42	120
2,4,6-Tribromophenol	71 d	22	144
Terphenyl-d14	85 d	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<2.5	Acenaphthylene	<0.025
Phenol	<1.2	2,6-Dinitrotoluene	<1.2
Bis(2-chloroethyl) ether	<0.5	3-Nitroaniline	<5
2-Chlorophenol	<1.2	Acenaphthene	<0.025
1,3-Dichlorobenzene	<0.5	2,4-Dinitrophenol	<10 ca
1,4-Dichlorobenzene	<0.5	Dibenzofuran	<0.025
1,2-Dichlorobenzene	<0.5	2,4-Dinitrotoluene	<1.2
Benzyl alcohol	<2.5	4-Nitrophenol	<5
2,2'-Oxybis(1-chloropropane)	<0.5	Diethyl phthalate	<2.5
2-Methylphenol	<2.5	Fluorene	<0.025
Hexachloroethane	<0.5	4-Chlorophenyl phenyl ether	<0.5
N-Nitroso-di-n-propylamine	<0.5	N-Nitrosodiphenylamine	<0.5
3-Methylphenol + 4-Methylphenol	<2.5	4-Nitroaniline	<5 ca
Nitrobenzene	<0.5	4,6-Dinitro-2-methylphenol	<10 ca
Isophorone	<0.5	Hexachlorobenzene	<0.5
2-Nitrophenol	<5 ca	Pentachlorophenol	<2.5
2,4-Dimethylphenol	<5	Phenanthrene	<0.025
Benzoic acid	<10	Anthracene	<0.025
Bis(2-chloroethoxy)methane	<0.5	Carbazole	<0.025
2,4-Dichlorophenol	<2.5	Di-n-butyl phthalate	<2.5
1,2,4-Trichlorobenzene	<0.5	Fluoranthene	0.057
Naphthalene	<0.05	Pyrene	0.068
Hexachlorobutadiene	<0.5	Benzyl butyl phthalate	<2.5
4-Chloroaniline	<50	Benz(a)anthracene	0.059
4-Chloro-3-methylphenol	<2.5	Chrysene	0.088
2-Methylnaphthalene	<0.025	Bis(2-ethylhexyl) phthalate	<5
1-Methylnaphthalene	<0.025	Di-n-octyl phthalate	<5
Hexachlorocyclopentadiene	<0.5 ca	Benzo(a)pyrene	0.044
2,4,6-Trichlorophenol	<2.5	Benzo(b)fluoranthene	0.097
2,4,5-Trichlorophenol	<2.5	Benzo(k)fluoranthene	0.027
2-Chloronaphthalene	<0.5	Indeno(1,2,3-cd)pyrene	<0.05
2-Nitroaniline	<2.5	Dibenz(a,h)anthracene	<0.05
Dimethyl phthalate	<1.2	Benzo(g,h,i)perylene	<0.05

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	T13-65-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-05 1/25
Date Analyzed:	08/26/25	Data File:	082623.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	DBA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59 d	23	125
Phenol-d6	68 d	31	125
Nitrobenzene-d5	64 d	24	133
2-Fluorobiphenyl	71 d	42	120
2,4,6-Tribromophenol	70 d	22	144
Terphenyl-d14	88 d	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<1.2	Acenaphthylene	<0.012
Phenol	<0.62	2,6-Dinitrotoluene	<0.62
Bis(2-chloroethyl) ether	<0.25	3-Nitroaniline	<2.5
2-Chlorophenol	<0.62	Acenaphthene	<0.012
1,3-Dichlorobenzene	<0.25	2,4-Dinitrophenol	<5 ca
1,4-Dichlorobenzene	<0.25	Dibenzofuran	<0.012
1,2-Dichlorobenzene	<0.25	2,4-Dinitrotoluene	<0.62
Benzyl alcohol	<1.2	4-Nitrophenol	<2.5
2,2'-Oxybis(1-chloropropane)	<0.25	Diethyl phthalate	<1.2
2-Methylphenol	<1.2	Fluorene	<0.012
Hexachloroethane	<0.25	4-Chlorophenyl phenyl ether	<0.25
N-Nitroso-di-n-propylamine	<0.25	N-Nitrosodiphenylamine	<0.25
3-Methylphenol + 4-Methylphenol	<1.2	4-Nitroaniline	<2.5 ca
Nitrobenzene	<0.25	4,6-Dinitro-2-methylphenol	<5 ca
Isophorone	<0.25	Hexachlorobenzene	<0.25
2-Nitrophenol	<2.5 ca	Pentachlorophenol	<1.2
2,4-Dimethylphenol	<2.5	Phenanthrene	<0.012
Benzoic acid	<5	Anthracene	<0.012
Bis(2-chloroethoxy)methane	<0.25	Carbazole	<0.012
2,4-Dichlorophenol	<1.2	Di-n-butyl phthalate	<1.2
1,2,4-Trichlorobenzene	<0.25	Fluoranthene	<0.012
Naphthalene	<0.025	Pyrene	<0.012
Hexachlorobutadiene	<0.25	Benzyl butyl phthalate	<1.2
4-Chloroaniline	<25	Benz(a)anthracene	<0.025
4-Chloro-3-methylphenol	<1.2	Chrysene	<0.012
2-Methylnaphthalene	<0.012	Bis(2-ethylhexyl) phthalate	<2.5
1-Methylnaphthalene	<0.012	Di-n-octyl phthalate	<2.5
Hexachlorocyclopentadiene	<0.25 ca	Benzo(a)pyrene	<0.012
2,4,6-Trichlorophenol	<1.2	Benzo(b)fluoranthene	<0.012
2,4,5-Trichlorophenol	<1.2	Benzo(k)fluoranthene	<0.012
2-Chloronaphthalene	<0.25	Indeno(1,2,3-cd)pyrene	<0.025
2-Nitroaniline	<1.2	Dibenz(a,h)anthracene	<0.025
Dimethyl phthalate	<0.62	Benzo(g,h,i)perylene	<0.025

Analysis For Semivolatile Compounds By EPA Method 8270E

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	Not Applicable	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	05-2163 mb 1/5
Date Analyzed:	08/25/25	Data File:	082513.D
Matrix:	Soil	Instrument:	GCMS9
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	85	23	125
Phenol-d6	91	31	125
Nitrobenzene-d5	105	24	133
2-Fluorobiphenyl	91	42	120
2,4,6-Tribromophenol	84	22	144
Terphenyl-d14	105	41	138

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Pyridine	<0.25	Acenaphthylene	<0.0025
Phenol	<0.12	2,6-Dinitrotoluene	<0.12
Bis(2-chloroethyl) ether	<0.05	3-Nitroaniline	<0.5
2-Chlorophenol	<0.12	Acenaphthene	<0.0025
1,3-Dichlorobenzene	<0.05	2,4-Dinitrophenol	<1
1,4-Dichlorobenzene	<0.05	Dibenzofuran	<0.0025
1,2-Dichlorobenzene	<0.05	2,4-Dinitrotoluene	<0.12
Benzyl alcohol	<0.25	4-Nitrophenol	<0.5
2,2'-Oxybis(1-chloropropane)	<0.05	Diethyl phthalate	<0.25
2-Methylphenol	<0.25	Fluorene	<0.0025
Hexachloroethane	<0.05	4-Chlorophenyl phenyl ether	<0.05
N-Nitroso-di-n-propylamine	<0.05	N-Nitrosodiphenylamine	<0.05
3-Methylphenol + 4-Methylphenol	<0.25	4-Nitroaniline	<0.5 ca
Nitrobenzene	<0.05 k	4,6-Dinitro-2-methylphenol	<1 ca
Isophorone	<0.05	Hexachlorobenzene	<0.05
2-Nitrophenol	<0.5 ca	Pentachlorophenol	<0.25
2,4-Dimethylphenol	<0.5	Phenanthrene	<0.0025
Benzoic acid	<1 ca	Anthracene	<0.0025
Bis(2-chloroethoxy)methane	<0.05	Carbazole	<0.0025
2,4-Dichlorophenol	<0.25	Di-n-butyl phthalate	<0.25
1,2,4-Trichlorobenzene	<0.05	Fluoranthene	<0.0025
Naphthalene	<0.005	Pyrene	<0.0025
Hexachlorobutadiene	<0.05	Benzyl butyl phthalate	<0.25 ca
4-Chloroaniline	<5	Benz(a)anthracene	<0.005
4-Chloro-3-methylphenol	<0.25	Chrysene	<0.0025
2-Methylnaphthalene	<0.0025	Bis(2-ethylhexyl) phthalate	<0.5
1-Methylnaphthalene	<0.0025	Di-n-octyl phthalate	<0.5
Hexachlorocyclopentadiene	<0.05 ca	Benzo(a)pyrene	<0.0025
2,4,6-Trichlorophenol	<0.25	Benzo(b)fluoranthene	<0.0025
2,4,5-Trichlorophenol	<0.25	Benzo(k)fluoranthene	<0.0025
2-Chloronaphthalene	<0.05	Indeno(1,2,3-cd)pyrene	<0.005
2-Nitroaniline	<0.25	Dibenz(a,h)anthracene	<0.005
Dimethyl phthalate	<0.12	Benzo(g,h,i)perylene	<0.005

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T4-48-0821	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-02
Date Analyzed:	08/25/25	Data File:	508382-02.087
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.3
Barium	140
Cadmium	<1
Lead	2.5
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T4-48-0821	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-02 x5
Date Analyzed:	08/25/25	Data File:	508382-02 x5.148
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	<5

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T5-58-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-04
Date Analyzed:	08/25/25	Data File:	508382-04.088
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.1
Barium	32
Cadmium	<1
Lead	13
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T5-58-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-04 x5
Date Analyzed:	08/25/25	Data File:	508382-04 x5.149
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	<5

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T13-65-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-05
Date Analyzed:	08/25/25	Data File:	508382-05.089
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	34
Cadmium	<1
Lead	3.8
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	T13-65-0819	Client:	DTG Recycle
Date Received:	08/22/25	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	508382-05 x5
Date Analyzed:	08/25/25	Data File:	508382-05 x5.150
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Chromium	<5

Analysis For Total Metals By EPA Method 6020B

Client Sample ID:	Method Blank	Client:	DTG Recycle
Date Received:	NA	Project:	Rocky Top Environmental
Date Extracted:	08/25/25	Lab ID:	I5-741 mb
Date Analyzed:	08/25/25	Data File:	I5-741 mb.050
Matrix:	Soil	Instrument:	ICPMS3
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508422-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	87	70-130

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508382-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	40	102	70-130

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508382-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	116	112	63-146	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	110	77-123

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508411-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	109	27-164
Chloromethane	ug/L (ppb)	10	<10	103	34-141
Vinyl chloride	ug/L (ppb)	10	<0.02	107	16-176
Bromomethane	ug/L (ppb)	10	<5	118	10-193
Chloroethane	ug/L (ppb)	10	<1	108	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	112	50-150
Acetone	ug/L (ppb)	50	<50	58	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	105	50-150
Hexane	ug/L (ppb)	10	<5	113	49-161
Methylene chloride	ug/L (ppb)	10	<5	104	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	104	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	104	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	105	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	97	62-152
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	102	50-150
Chloroform	ug/L (ppb)	10	<1	91	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	81	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	104	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	103	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	103	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	103	50-150
Benzene	ug/L (ppb)	10	<0.35	105	50-150
Trichloroethene	ug/L (ppb)	10	<0.05	98	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	106	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	100	50-150
Dibromomethane	ug/L (ppb)	10	<1	106	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	107	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	101	48-145
Toluene	ug/L (ppb)	10	<1	104	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	97	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	106	50-150
2-Hexanone	ug/L (ppb)	50	<10	112	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	102	50-150
Tetrachloroethene	ug/L (ppb)	10	<0.5	105	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	97	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<0.01	102	50-150
Chlorobenzene	ug/L (ppb)	10	<1	102	50-150
Ethylbenzene	ug/L (ppb)	10	<1	107	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	98	50-150
m,p-Xylene	ug/L (ppb)	20	<2	107	50-150
o-Xylene	ug/L (ppb)	10	<1	106	50-150
Styrene	ug/L (ppb)	10	<1	103	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	103	50-150
Bromoform	ug/L (ppb)	10	<5	100	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	108	50-150
Bromobenzene	ug/L (ppb)	10	<1	103	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	104	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	111	57-162
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	108	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	105	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	108	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	104	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	106	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	105	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	106	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	104	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	106	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	104	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	92	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	96	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	94	42-150
Naphthalene	ug/L (ppb)	10	<1	91	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	94	44-155

Date of Report: 08/29/25
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Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	102	105	49-149	3
Chloromethane	ug/L (ppb)	10	104	112	34-143	7
Vinyl chloride	ug/L (ppb)	10	105	108	43-149	3
Bromomethane	ug/L (ppb)	10	111	111	28-182	0
Chloroethane	ug/L (ppb)	10	108	110	59-157	2
Trichlorofluoromethane	ug/L (ppb)	10	108	97	59-141	11
Acetone	ug/L (ppb)	50	57	57	20-139	0
1,1-Dichloroethene	ug/L (ppb)	10	104	105	67-138	1
Hexane	ug/L (ppb)	10	95	103	50-161	8
Methylene chloride	ug/L (ppb)	10	99	102	29-192	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	103	104	70-130	1
trans-1,2-Dichloroethene	ug/L (ppb)	10	102	105	70-130	3
1,1-Dichloroethane	ug/L (ppb)	10	106	108	70-130	2
2,2-Dichloropropane	ug/L (ppb)	10	91	99	71-148	8
cis-1,2-Dichloroethene	ug/L (ppb)	10	101	104	70-130	3
Chloroform	ug/L (ppb)	10	92	91	70-130	1
2-Butanone (MEK)	ug/L (ppb)	50	79	89	50-157	12
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	102	104	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	10	101	104	70-130	3
1,1-Dichloropropene	ug/L (ppb)	10	100	104	70-130	4
Carbon tetrachloride	ug/L (ppb)	10	100	102	70-130	2
Benzene	ug/L (ppb)	10	103	105	70-130	2
Trichloroethene	ug/L (ppb)	10	95	98	70-130	3
1,2-Dichloropropane	ug/L (ppb)	10	100	103	70-130	3
Bromodichloromethane	ug/L (ppb)	10	99	100	70-130	1
Dibromomethane	ug/L (ppb)	10	100	104	70-130	4
4-Methyl-2-pentanone	ug/L (ppb)	50	102	102	70-130	0
cis-1,3-Dichloropropene	ug/L (ppb)	10	93	97	70-130	4
Toluene	ug/L (ppb)	10	104	106	70-130	2
trans-1,3-Dichloropropene	ug/L (ppb)	10	98	95	70-130	3
1,1,2-Trichloroethane	ug/L (ppb)	10	106	106	70-130	0
2-Hexanone	ug/L (ppb)	50	111	112	66-132	1
1,3-Dichloropropane	ug/L (ppb)	10	103	104	70-130	1
Tetrachloroethene	ug/L (ppb)	10	102	104	70-130	2
Dibromochloromethane	ug/L (ppb)	10	96	98	63-142	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	103	103	70-130	0
Chlorobenzene	ug/L (ppb)	10	103	101	70-130	2
Ethylbenzene	ug/L (ppb)	10	106	107	70-130	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	100	101	70-130	1
m,p-Xylene	ug/L (ppb)	20	105	107	70-130	2
o-Xylene	ug/L (ppb)	10	106	107	70-130	1
Styrene	ug/L (ppb)	10	102	104	70-130	2
Isopropylbenzene	ug/L (ppb)	10	103	103	70-130	0
Bromoform	ug/L (ppb)	10	104	105	50-157	1
n-Propylbenzene	ug/L (ppb)	10	97	104	70-130	7
Bromobenzene	ug/L (ppb)	10	98	101	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	99	101	52-150	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	104	107	75-140	3
1,2,3-Trichloropropane	ug/L (ppb)	10	103	104	40-153	1
2-Chlorotoluene	ug/L (ppb)	10	97	101	70-130	4
4-Chlorotoluene	ug/L (ppb)	10	97	103	70-130	6
tert-Butylbenzene	ug/L (ppb)	10	99	104	70-130	5
1,2,4-Trimethylbenzene	ug/L (ppb)	10	98	102	70-130	4
sec-Butylbenzene	ug/L (ppb)	10	97	102	70-130	5
p-Isopropyltoluene	ug/L (ppb)	10	95	101	70-130	6
1,3-Dichlorobenzene	ug/L (ppb)	10	97	102	70-130	5
1,4-Dichlorobenzene	ug/L (ppb)	10	97	101	70-130	4
1,2-Dichlorobenzene	ug/L (ppb)	10	100	100	70-130	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	90	96	70-130	6
1,2,4-Trichlorobenzene	ug/L (ppb)	10	89	96	70-130	8
Hexachlorobutadiene	ug/L (ppb)	10	87	94	70-130	8
Naphthalene	ug/L (ppb)	10	88	95	61-133	8
1,2,3-Trichlorobenzene	ug/L (ppb)	10	89	97	69-143	9

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Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508382-02 1/0.5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2	<0.5	61	64	10-142	5
Chloromethane	mg/kg (ppm)	2	<0.5	73	78	10-126	7
Vinyl chloride	mg/kg (ppm)	2	<0.002	79	84	10-138	6
Bromomethane	mg/kg (ppm)	2	<0.5	85	85	10-163	0
Chloroethane	mg/kg (ppm)	2	<0.1	74	78	10-176	5
Trichlorofluoromethane	mg/kg (ppm)	2	<0.5	91	95	10-176	4
Acetone	mg/kg (ppm)	10	<5	90	97	10-163	7
1,1-Dichloroethene	mg/kg (ppm)	2	<0.002	89	93	10-160	4
Hexane	mg/kg (ppm)	2	<0.25	88	93	10-137	6
Methylene chloride	mg/kg (ppm)	2	<0.4	88	89	10-156	1
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	<0.002	94	100	21-145	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	93	99	14-137	6
1,1-Dichloroethane	mg/kg (ppm)	2	<0.002	90	98	19-140	9
2,2-Dichloropropane	mg/kg (ppm)	2	<0.05	94	99	10-158	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2	<0.002	95	101	25-135	6
Chloroform	mg/kg (ppm)	2	<0.05	90	98	21-145	9
2-Butanone (MEK)	mg/kg (ppm)	10	<1	88	97	19-147	10
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	<0.003	96	105	12-160	9
1,1,1-Trichloroethane	mg/kg (ppm)	2	<0.002	96	102	10-156	6
1,1-Dichloropropene	mg/kg (ppm)	2	<0.05	95	101	17-140	6
Carbon tetrachloride	mg/kg (ppm)	2	<0.05	101	108	9-164	7
Benzene	mg/kg (ppm)	2	<0.002	92	99	29-129	7
Trichloroethene	mg/kg (ppm)	2	<0.002	95	102	21-139	7
1,2-Dichloropropane	mg/kg (ppm)	2	<0.05	91	98	30-135	7
Bromodichloromethane	mg/kg (ppm)	2	<0.05	92	99	23-155	7
Dibromomethane	mg/kg (ppm)	2	<0.05	95	105	23-145	10
4-Methyl-2-pentanone	mg/kg (ppm)	10	<1	91	99	24-155	8
cis-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	95	104	28-144	9
Toluene	mg/kg (ppm)	2	<0.008	87	94	35-130	8
trans-1,3-Dichloropropene	mg/kg (ppm)	2	<0.05	88	97	26-149	10
1,1,2-Trichloroethane	mg/kg (ppm)	2	<0.05	81	88	10-205	8
2-Hexanone	mg/kg (ppm)	10	<1	85	93	15-166	9
1,3-Dichloropropane	mg/kg (ppm)	2	<0.05	85	92	31-137	8
Tetrachloroethene	mg/kg (ppm)	2	<0.002	93	98	20-133	5
Dibromochloromethane	mg/kg (ppm)	2	<0.05	90	96	28-150	6
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	<0.005	88	95	28-142	8
Chlorobenzene	mg/kg (ppm)	2	<0.05	89	96	32-129	8
Ethylbenzene	mg/kg (ppm)	2	<0.002	87	95	32-137	9
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	92	99	31-143	7
m,p-Xylene	mg/kg (ppm)	4	<0.004	89	96	34-136	8
o-Xylene	mg/kg (ppm)	2	<0.002	90	97	33-134	7
Styrene	mg/kg (ppm)	2	<0.05	88	97	35-137	10
Isopropylbenzene	mg/kg (ppm)	2	<0.05	90	96	31-142	6
Bromoform	mg/kg (ppm)	2	<0.05	90	98	21-156	9
n-Propylbenzene	mg/kg (ppm)	2	<0.05	85	93	23-146	9
Bromobenzene	mg/kg (ppm)	2	<0.05	90	97	34-130	7
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	<0.05	87	95	18-149	9
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	<0.05	83	90	28-140	8
1,2,3-Trichloropropane	mg/kg (ppm)	2	<0.05	83	92	25-144	10
2-Chlorotoluene	mg/kg (ppm)	2	<0.05	85	91	31-134	7
4-Chlorotoluene	mg/kg (ppm)	2	<0.05	84	94	31-136	11
tert-Butylbenzene	mg/kg (ppm)	2	<0.05	85	94	30-137	10
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	<0.05	87	93	10-182	7
sec-Butylbenzene	mg/kg (ppm)	2	<0.05	84	93	23-145	10
p-Isopropyltoluene	mg/kg (ppm)	2	<0.05	89	96	21-149	8
1,3-Dichlorobenzene	mg/kg (ppm)	2	<0.05	89	97	30-131	9
1,4-Dichlorobenzene	mg/kg (ppm)	2	<0.05	88	97	29-129	10
1,2-Dichlorobenzene	mg/kg (ppm)	2	<0.05	89	97	31-132	9
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	<0.5	81	88	11-161	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	<0.25	87	97	22-142	11
Hexachlorobutadiene	mg/kg (ppm)	2	<0.25	95	99	10-142	4
Naphthalene	mg/kg (ppm)	2	<0.01	85	92	14-157	8
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	<0.25	89	96	20-144	8

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Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2	58	10-146
Chloromethane	mg/kg (ppm)	2	65	27-133
Vinyl chloride	mg/kg (ppm)	2	72	22-139
Bromomethane	mg/kg (ppm)	2	74	10-201
Chloroethane	mg/kg (ppm)	2	67	10-163
Trichlorofluoromethane	mg/kg (ppm)	2	78	10-196
Acetone	mg/kg (ppm)	10	79	10-255
1,1-Dichloroethene	mg/kg (ppm)	2	79	47-128
Hexane	mg/kg (ppm)	2	76	43-142
Methylene chloride	mg/kg (ppm)	2	74	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2	83	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	2	82	64-132
1,1-Dichloroethane	mg/kg (ppm)	2	82	64-135
2,2-Dichloropropane	mg/kg (ppm)	2	83	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	2	85	64-135
Chloroform	mg/kg (ppm)	2	81	61-139
2-Butanone (MEK)	mg/kg (ppm)	10	78	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2	89	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	2	85	62-131
1,1-Dichloropropene	mg/kg (ppm)	2	83	64-136
Carbon tetrachloride	mg/kg (ppm)	2	89	60-139
Benzene	mg/kg (ppm)	2	81	65-136
Trichloroethene	mg/kg (ppm)	2	85	63-139
1,2-Dichloropropane	mg/kg (ppm)	2	81	61-145
Bromodichloromethane	mg/kg (ppm)	2	83	57-126
Dibromomethane	mg/kg (ppm)	2	86	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	10	82	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	2	86	65-143
Toluene	mg/kg (ppm)	2	80	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	2	80	65-131
1,1,2-Trichloroethane	mg/kg (ppm)	2	75	62-131
2-Hexanone	mg/kg (ppm)	10	79	33-152
1,3-Dichloropropane	mg/kg (ppm)	2	79	67-128
Tetrachloroethene	mg/kg (ppm)	2	83	68-128
Dibromochloromethane	mg/kg (ppm)	2	82	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2	81	66-129
Chlorobenzene	mg/kg (ppm)	2	82	67-128
Ethylbenzene	mg/kg (ppm)	2	79	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2	83	64-121
m,p-Xylene	mg/kg (ppm)	4	81	68-128
o-Xylene	mg/kg (ppm)	2	81	67-129
Styrene	mg/kg (ppm)	2	82	67-129
Isopropylbenzene	mg/kg (ppm)	2	81	68-128
Bromoform	mg/kg (ppm)	2	82	56-132
n-Propylbenzene	mg/kg (ppm)	2	77	68-129
Bromobenzene	mg/kg (ppm)	2	83	69-128
1,3,5-Trimethylbenzene	mg/kg (ppm)	2	79	69-129
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2	76	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	2	77	61-137
2-Chlorotoluene	mg/kg (ppm)	2	77	69-128
4-Chlorotoluene	mg/kg (ppm)	2	77	67-127
tert-Butylbenzene	mg/kg (ppm)	2	79	69-129
1,2,4-Trimethylbenzene	mg/kg (ppm)	2	78	69-128
sec-Butylbenzene	mg/kg (ppm)	2	79	69-130
p-Isopropyltoluene	mg/kg (ppm)	2	80	69-130
1,3-Dichlorobenzene	mg/kg (ppm)	2	82	69-127
1,4-Dichlorobenzene	mg/kg (ppm)	2	81	68-126
1,2-Dichlorobenzene	mg/kg (ppm)	2	82	69-127
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2	77	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	2	80	64-135
Hexachlorobutadiene	mg/kg (ppm)	2	85	50-153
Naphthalene	mg/kg (ppm)	2	77	62-128
1,2,3-Trichlorobenzene	mg/kg (ppm)	2	80	61-126

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508382-02 1/5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Pyridine	mg/kg (ppm)	0.83	<0.25	1 vo	0 vo	10-108	57 vo
Phenol	mg/kg (ppm)	0.83	<0.12	82	84	36-118	2
Bis(2-chloroethyl) ether	mg/kg (ppm)	0.83	<0.05	71	74	24-116	4
2-Chlorophenol	mg/kg (ppm)	0.83	<0.12	71	74	24-125	4
1,3-Dichlorobenzene	mg/kg (ppm)	0.83	<0.05	58	58	17-116	0
1,4-Dichlorobenzene	mg/kg (ppm)	0.83	<0.05	61	63	18-118	3
1,2-Dichlorobenzene	mg/kg (ppm)	0.83	<0.05	64	64	22-117	0
Benzyl alcohol	mg/kg (ppm)	4.2	<0.25	79	82	36-121	4
2,2'-Oxybis(1-chloropropane)	mg/kg (ppm)	0.83	<0.05	77	79	20-126	3
2-Methylphenol	mg/kg (ppm)	0.83	<0.25	78	79	38-120	1
Hexachloroethane	mg/kg (ppm)	0.83	<0.05	61	61	10-207	0
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.83	<0.05	83	85	10-176	2
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	0.83	<0.25	78	80	39-121	3
Nitrobenzene	mg/kg (ppm)	0.83	<0.05	75	97	10-186	26 vo
Isophorone	mg/kg (ppm)	0.83	<0.05	80	86	29-155	7
2-Nitrophenol	mg/kg (ppm)	0.83	<0.5	66	74	16-148	11
2,4-Dimethylphenol	mg/kg (ppm)	0.83	<0.5	75	80	17-130	6
Benzoic acid	mg/kg (ppm)	2.5	<1	14	14	10-101	0
Bis(2-chloroethoxy)methane	mg/kg (ppm)	0.83	<0.05	78	82	37-121	5
2,4-Dichlorophenol	mg/kg (ppm)	0.83	<0.25	74	80	19-144	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.83	<0.05	68	72	35-116	6
Naphthalene	mg/kg (ppm)	0.83	<0.005	69	73	28-125	6
Hexachlorobutadiene	mg/kg (ppm)	0.83	<0.05	67	72	25-126	7
4-Chloroaniline	mg/kg (ppm)	6.8	<5	78	74	21-117	5
4-Chloro-3-methylphenol	mg/kg (ppm)	0.83	<0.25	81	87	36-138	7
2-Methylnaphthalene	mg/kg (ppm)	0.83	<0.0025	77	81	10-192	5
1-Methylnaphthalene	mg/kg (ppm)	0.83	<0.0025	76	79	10-163	4
Hexachlorocyclopentadiene	mg/kg (ppm)	0.83	<0.05	57	63	10-136	10
2,4,6-Trichlorophenol	mg/kg (ppm)	0.83	<0.25	73	78	16-151	7
2,4,5-Trichlorophenol	mg/kg (ppm)	0.83	<0.25	75	81	20-139	8
2-Chloronaphthalene	mg/kg (ppm)	0.83	<0.05	73	77	42-117	5
2-Nitroaniline	mg/kg (ppm)	4.2	<0.25	87	94	19-118	8
Dimethyl phthalate	mg/kg (ppm)	0.83	<0.12	80	84	62-110	5
Acenaphthylene	mg/kg (ppm)	0.83	<0.0025	78	79	45-128	1
2,6-Dinitrotoluene	mg/kg (ppm)	0.83	<0.12	86	91	11-182	6
3-Nitroaniline	mg/kg (ppm)	4.2	<0.5	83	88	36-110	6
Acenaphthene	mg/kg (ppm)	0.83	<0.0025	77	80	36-125	4
2,4-Dinitrophenol	mg/kg (ppm)	1.7	<1	62	66	17-140	6
Dibenzofuran	mg/kg (ppm)	0.83	<0.0025	78	82	30-125	5
2,4-Dinitrotoluene	mg/kg (ppm)	0.83	<0.12	91	96	37-149	5
4-Nitrophenol	mg/kg (ppm)	1.7	<0.5	83	80	24-159	4
Diethyl phthalate	mg/kg (ppm)	0.83	<0.25	83	86	48-126	4
Fluorene	mg/kg (ppm)	0.83	<0.0025	83	86	48-121	4
4-Chlorophenyl phenyl ether	mg/kg (ppm)	0.83	<0.05	79	83	63-106	5
N-Nitrosodiphenylamine	mg/kg (ppm)	0.83	<0.05	76	80	57-110	5
4-Nitroaniline	mg/kg (ppm)	4.2	<0.5	51	46 vo	48-110	10
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.83	<1	69	72	24-163	4
Hexachlorobenzene	mg/kg (ppm)	0.83	<0.05	78	82	59-108	5
Pentachlorophenol	mg/kg (ppm)	0.83	<0.25	80	84	10-171	5
Phenanthrene	mg/kg (ppm)	0.83	<0.0025	78	79	46-122	1
Anthracene	mg/kg (ppm)	0.83	<0.0025	77	82	30-144	6
Carbazole	mg/kg (ppm)	0.83	<0.0025	83	82	67-112	1
Di-n-butyl phthalate	mg/kg (ppm)	0.83	<0.25	84	88	43-124	5
Fluoranthene	mg/kg (ppm)	0.83	<0.0025	86	87	63-114	1
Pyrene	mg/kg (ppm)	0.83	<0.0025	82	88	40-134	7
Benzyl butyl phthalate	mg/kg (ppm)	0.83	<0.25	77	80	14-187	4
Benz(a)anthracene	mg/kg (ppm)	0.83	<0.005	81	85	69-106	5
Chrysene	mg/kg (ppm)	0.83	<0.0025	80	84	68-101	5
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	0.83	<0.5	78	82	45-130	5
Di-n-octyl phthalate	mg/kg (ppm)	0.83	<0.5	85	89	25-161	5
Benzo(a)pyrene	mg/kg (ppm)	0.83	<0.0025	81	86	70-110	6
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	<0.0025	84	88	68-111	5
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	<0.0025	82	90	71-109	9
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	<0.005	76	76	57-120	0
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	<0.005	77	75	41-136	3
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	<0.03	75	73	29-139	3

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: Laboratory Control Sample 1/5

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Pyridine	mg/kg (ppm)	0.83	65	20-82
Phenol	mg/kg (ppm)	0.83	96	47-128
Bis(2-chloroethyl) ether	mg/kg (ppm)	0.83	87	35-131
2-Chlorophenol	mg/kg (ppm)	0.83	85	58-111
1,3-Dichlorobenzene	mg/kg (ppm)	0.83	79	47-109
1,4-Dichlorobenzene	mg/kg (ppm)	0.83	85	46-110
1,2-Dichlorobenzene	mg/kg (ppm)	0.83	83	50-110
Benzyl alcohol	mg/kg (ppm)	4.2	92	36-147
2,2'-Oxybis(1-chloropropane)	mg/kg (ppm)	0.83	92	54-113
2-Methylphenol	mg/kg (ppm)	0.83	89	60-114
Hexachloroethane	mg/kg (ppm)	0.83	81	45-111
N-Nitroso-di-n-propylamine	mg/kg (ppm)	0.83	94	70-130
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	0.83	91	66-112
Nitrobenzene	mg/kg (ppm)	0.83	110	62-114
Isophorone	mg/kg (ppm)	0.83	96	52-128
2-Nitrophenol	mg/kg (ppm)	0.83	81	55-129
2,4-Dimethylphenol	mg/kg (ppm)	0.83	87	53-119
Benzoic acid	mg/kg (ppm)	2.5	69	40-101
Bis(2-chloroethoxy)methane	mg/kg (ppm)	0.83	93	64-112
2,4-Dichlorophenol	mg/kg (ppm)	0.83	87	68-113
1,2,4-Trichlorobenzene	mg/kg (ppm)	0.83	85	56-111
Naphthalene	mg/kg (ppm)	0.83	85	57-107
Hexachlorobutadiene	mg/kg (ppm)	0.83	86	49-119
4-Chloroaniline	mg/kg (ppm)	6.8	82	10-136
4-Chloro-3-methylphenol	mg/kg (ppm)	0.83	96	73-114
2-Methylnaphthalene	mg/kg (ppm)	0.83	93	63-112
1-Methylnaphthalene	mg/kg (ppm)	0.83	91	63-113
Hexachlorocyclopentadiene	mg/kg (ppm)	0.83	70	35-136
2,4,6-Trichlorophenol	mg/kg (ppm)	0.83	89	66-122
2,4,5-Trichlorophenol	mg/kg (ppm)	0.83	90	64-123
2-Chloronaphthalene	mg/kg (ppm)	0.83	87	69-110
2-Nitroaniline	mg/kg (ppm)	4.2	99	46-148
Dimethyl phthalate	mg/kg (ppm)	0.83	94	71-116
Acenaphthylene	mg/kg (ppm)	0.83	90	70-115
2,6-Dinitrotoluene	mg/kg (ppm)	0.83	103	64-132
Acenaphthene	mg/kg (ppm)	0.83	89	66-112
2,4-Dinitrophenol	mg/kg (ppm)	1.7	85	62-135
Dibenzofuran	mg/kg (ppm)	0.83	94	63-117
2,4-Dinitrotoluene	mg/kg (ppm)	0.83	108	52-140
4-Nitrophenol	mg/kg (ppm)	1.7	103	16-187
Diethyl phthalate	mg/kg (ppm)	0.83	101	64-120
Fluorene	mg/kg (ppm)	0.83	99	67-117
4-Chlorophenyl phenyl ether	mg/kg (ppm)	0.83	93	70-130
N-Nitrosodiphenylamine	mg/kg (ppm)	0.83	88	61-118
4-Nitroaniline	mg/kg (ppm)	4.2	57	28-121
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	0.83	89	65-157
Hexachlorobenzene	mg/kg (ppm)	0.83	91	69-116
Pentachlorophenol	mg/kg (ppm)	0.83	93	63-144
Phenanthrene	mg/kg (ppm)	0.83	90	70-113
Anthracene	mg/kg (ppm)	0.83	93	72-113
Carbazole	mg/kg (ppm)	0.83	93	63-122
Di-n-butyl phthalate	mg/kg (ppm)	0.83	102	48-128
Fluoranthene	mg/kg (ppm)	0.83	104	75-120
Pyrene	mg/kg (ppm)	0.83	96	73-113
Benzyl butyl phthalate	mg/kg (ppm)	0.83	93	64-135
Benz(a)anthracene	mg/kg (ppm)	0.83	96	76-114
Chrysene	mg/kg (ppm)	0.83	94	79-109
Bis(2-ethylhexyl) phthalate	mg/kg (ppm)	0.83	96	65-124
Di-n-octyl phthalate	mg/kg (ppm)	0.83	104	65-138
Benzo(a)pyrene	mg/kg (ppm)	0.83	96	68-120
Benzo(b)fluoranthene	mg/kg (ppm)	0.83	97	67-128
Benzo(k)fluoranthene	mg/kg (ppm)	0.83	99	80-119
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.83	91	67-129
Dibenz(a,h)anthracene	mg/kg (ppm)	0.83	90	67-128
Benzo(g,h,i)perylene	mg/kg (ppm)	0.83	87	65-130

Date of Report: 08/29/25
Date Received: 08/22/25
Project: Rocky Top Environmental DTG Yakima 553-8472-010 13.02, F&BI 508382

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

Laboratory Code: 508403-02 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	97	92	75-125	5
Barium	mg/kg (ppm)	50	33.6	107 b	109 b	75-125	2 b
Cadmium	mg/kg (ppm)	10	<5	102	99	75-125	3
Chromium	mg/kg (ppm)	50	14.5	100 b	101 b	75-125	1 b
Lead	mg/kg (ppm)	50	<5	100	98	75-125	2
Mercury	mg/kg (ppm	5	<5	94	90	75-125	4
Selenium	mg/kg (ppm)	5	<5	94	87	75-125	8
Silver	mg/kg (ppm)	10	<5	100	98	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	107	80-120
Barium	mg/kg (ppm)	50	106	80-120
Cadmium	mg/kg (ppm)	10	107	80-120
Chromium	mg/kg (ppm)	50	99	80-120
Lead	mg/kg (ppm)	50	102	80-120
Mercury	mg/kg (ppm)	5	106	80-120
Selenium	mg/kg (ppm)	5	106	80-120
Silver	mg/kg (ppm)	10	106	80-120

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 between the method detection limit and the lowest calibration point. The value reported is an estimate.

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 – 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.

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.

508382

SAMPLE CHAIN OF CUSTODY

ME 08-22-25

VW 1 N3

Report To: Ian Sutton

Company: DTG Recycle

Address: 22745 29th Dr. SE, Ste 200

City, State, ZIP: Bothell, WA 98021

Phone: _____ Email: ISutton@DTGrecycle.com

SAMPLERS (*signature*)

PROJECT NAME: Rocky Top Environmental / DTG Yakima LPL

PO #: 553-8472-010 13.02

REMARKS: Project Specific RLs - Yes / No

INVOICE TO

Page # _____ of _____

TURNAROUND TIME
Standard Turnaround
RUSH _____
Rush charges authorized by: _____

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other _____

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Gx	VOCs EPA 8260	NWTPH-Dx	SVOCs EPA 8270	RCRA 8 Metals							Notes
T4-20-0821 ~~DUPLICATE~~	01A-E	8/21/25	1610	Soil	5	X	X	X									
T4-48-0821	02A-F	8/21/25	1630	Soil	6	X	X	X	X	X							
T5-25-0819	03A-E	8/19/25	1425	Soil	5	X	X	X									
T5-58-0819	04A-F	8/19/25	1410	Soil	6	X	X	X	X	X							
~~T13-~~				~~Soil~~	~~5~~	~~X~~	~~X~~	~~X~~									
T13-65-0819	05A-F	8/19/25	1500	Soil	6	X	X	X	X	X							
TRIP BLANK	06	8/6/25	800	H_2O	1	X	X										

Samples received at 3 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Chris B	Chris Bourgeois	PMX	8/22/25	1041
Received by:	Anh Phan	FBI	8/22/25	10:41
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
5500 4th Avenue S
Seattle, WA 98108
Ph. (206) 285-8282

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 508382 CLIENT Parametrix INITIALS/ DATE: AP 8/22/25

If custody seals are present on cooler, are they intact? ☑ NA ☐ YES ☐ NO

Cooler/Sample temperature 3 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☑ YES ☐ NO

How did samples arrive?
☑ Over the Counter ☐ Picked up by F&BI ☐ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☑ YES ☐ NO Initials/ Date: EMB 8/22
*or other representative documents, letters, and/or shipping memos

Number of days samples have been sitting prior to receipt at laboratory 1-3 days

Are the samples clearly identified? (explain "no" answer below) ☑ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☑ YES ☐ NO

Were appropriate sample containers used? ☐ YES ☑ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☑ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☐ NA ☑ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☑ Yes ☐ No	☐ Not on COC/label
Date Sampled	☑ Yes ☐ No	☐ Not on COC/label
Time Sampled	☑ Yes ☐ No	☐ Not on COC/label
# of Containers	☑ Yes ☐ No	
Relinquished	☑ Yes ☐ No	
Requested analysis	☑ Yes ☐ On Hold	

Other comments (use a separate page if needed)
Missing voa for -06. only one received for Gx and 8260 water.

Air Samples: Were any additional canisters/tubes received? ☑ NA ☐ YES ☐ NO

Number of unused TO15 canisters** _____ **Number of unused TO17 tubes** _____
**Fill out Green manifolds billing sheet

Attachment D

Data Quality Evaluations

Parametrix
let's create tomorrow, together

Memorandum

DATE: December 1, 2025
TO: Project File
FROM: Katie Burke
SUBJECT: July and August 2025 Soil Data Quality Evaluation
CC: Mike Brady
PROJECT NUMBER: 553-8472-010 13.02
PROJECT NAME: Rocky Top Environmental Limited Purpose Landfill

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A data quality evaluation was conducted for the reference soil sampling event at the DTG Yakima Limited Purpose Landfill (LPL). Samples were collected on July 25, August 9, 19, and 21, 2025 by Parametrix under contract to DTG. The samples were analyzed by Friedman & Bruya, Inc (F&BI) under the following Work Orders:

- F&BI Work Order 507504: T7-70 and T7-80
- F&BI Work Order 508198: T6-20 and T6-55
- F&BI Work Order 508382: T4-20, T4-48, T5-25, T5-58, T13-65, and Trip Blank

The data were evaluated in accordance with EPA guidance (EPA 2020a, 2020b, and 2009) at a Stage 2A level. Sample T13-65 is a field duplicate of T5-58.

Field Narrative

Soil sampling field data sheets were provided by Parametrix.

Laboratory Case Narrative

Samples collected on July 25, 2025, were received by F&BI on July 28, 2025 at a temperature of 4 degrees Celsius (C). Samples collected on August 9, 2025 were received by F&BI on August 13, 2025 at a temperature of 24 degrees C. Samples collected on August 19, 2025, were received by F&BI on August 22, 2025 BI at a temperature of 3 degrees C.

Qualifiers associated with the out of temperature cooler from work order 508198 are discussed below.

Work Order 507504

Total Petroleum Hydrocarbons by NW-TPH-Gx and NWTPH-Dx

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank is clean at the reporting limit.

The laboratory duplicates were not detected therefore relative percent differences (RPDs) are not applicable.

The laboratory control sample (LCS) recovery was within the laboratory control limits.

The matrix spike and matrix spike duplicate were outside relative percent difference criteria.

Volatile Organic Compounds (VOCs) and by EPA method 8260D

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

A trip blank was not provided with these samples. The data does not require qualification on this basis.

The LCS/ laboratory control sample duplicate (LCSD) recoveries and RPDs were within the laboratory acceptable criteria.

The calibration standard for acetone and 2-butanone was outside the upper laboratory acceptance criteria. Since the analytes were not detected in any sample no qualifier is required.

The matrix spike (MS)/matrix spike duplicate (MSD) percent recoveries were within laboratory acceptable criteria with the exception of acetone which exceeded the upper laboratory control limit. The data does not require qualification as the sample results were not detected at the reporting limit.

Semi-Volatile Organic Compounds (SVOCs) by EPA method 8270E

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

A trip blank was not provided with these samples. The data does not require qualification on this basis.

The LCS/LSD recoveries and RPDs were within the laboratory acceptable criteria.

The calibration standard for isophorone and 2,4-dinitrophenol was outside the upper laboratory acceptance criteria. Since the analytes were not detected in the sample no qualifier is required.

The calibration result for hexachlorocyclopentadiene was outside of acceptance criteria, biased low. Hexachlorocyclopentadiene for T7-80 will be qualified “UJ“ as estimated and not detected.

Metals by EPA method 6020B

The samples were prepared and analyzed within the recommended holding times.

The method blank was clean at the reporting limits.

The MS/MSD percent recoveries were within laboratory acceptable criteria except for arsenic, barium, chromium, and lead which exceeded the lower acceptable criteria. These analytes will be qualified “J” as estimated for T7-80. The RPDs were all within laboratory acceptable limits.

The LCS recoveries were within the laboratory acceptable criteria.

Work Order 508198

Total Petroleum Hydrocarbons by NW-TPH-Gx and NWTPH-Dx

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The laboratory duplicates were not detected therefore RPDs are not applicable.

The LCS recoveries were within the laboratory control limits.

The diesel result for T6-20 was flagged by the laboratory as the result's chromatographic pattern did not resemble the fuel standard.

Volatile Organic Compounds (VOCs) and by EPA method 8260D

The samples were prepared and analyzed within the recommended holding times. The samples were received at 24 degrees C which exceeded the required 6 degrees C preservation temperature. VOCs for T6-20 and T6-55 will be qualified "J" or "UJ" as estimated or estimated and not detected.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

A trip blank was not provided with these samples. The data does not require qualification on this basis.

The LCS recoveries were within the laboratory acceptable criteria.

The calibration standard for dichlorodifluoromethane, bromomethane, acetone, 2-butanone, and 2-hexanone, were outside the laboratory acceptance criteria, biased high. Since the analytes were not detected in the samples no qualifier is required.

The analyte response exceeded the valid instrument calibration range for naphthalene in sample T6-20. The result should be qualified "J" as estimated.

The MS/MSD percent recoveries were within laboratory acceptable criteria with the exception of acetone which exceeded the upper laboratory control limit. The data does not require qualification as the sample results were not detected at the reporting limit.

Semi-Volatile Organic Compounds (SVOCs) by EPA method 8270E

The samples were prepared and analyzed within the recommended holding times. Although the samples were received by the laboratory at a temperature of 24 degrees C, the samples will not require qualification as they were extracted and analyzed within 14 days.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

A trip blank was not provided with these samples. The data does not require qualification on this basis.

The LCS/LSD recoveries and RPDs were within the laboratory acceptable criteria.

The calibration results for hexachlorocyclopentadiene and 4-nitroaniline in sample T6-55 were outside the lower laboratory acceptance criteria. These analytes for sample T6-55 will be qualified "UJ" as estimated and not detected.

Metals by EPA method 6020B

The samples were prepared and analyzed within the recommended holding times.

The method blank was clean at the reporting limits.

The MS/MSD percent recoveries and RPDs were within laboratory acceptable criteria except for arsenic which exceeded the upper acceptable criteria. Arsenic will be qualified "J" as estimated for T6-55.

The LCS recoveries were within the laboratory acceptable criteria.

Work Order 508382

Total Petroleum Hydrocarbons by NW-TPH-Gx and NWTPH-Dx

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank is clean at the reporting limit.

The trip blank is clean at the reporting limit.

The laboratory duplicates were not detected therefore relative percent differences RPDs are not applicable.

The laboratory control sample LCS recovery was within the laboratory control limits.

The diesel result for T6-20 was flagged by the laboratory as the result's chromatographic pattern did not resemble the fuel standard.

Volatile Organic Compounds (VOCs) and by EPA method 8260D

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

The trip blank was clean at the reporting limits. The calibration result for acetone was outside of acceptance criteria, biased low. Acetone will be qualified "UJ" as estimated and not detected for the trip blank.

The LCS/LSD recoveries and RPDs were within the laboratory acceptable criteria.

The calibration standard for 2-hexanone in samples T4-20, T4-48, T5-58, and T13-65 was outside the upper laboratory acceptance criteria. Since the analyte was not detected in the samples, no qualifier is required.

The calibration results for acetone in sample T5-25 was outside the lower acceptable laboratory criteria for T5-25. Acetone for sample T5-25 will be qualified "UJ" as estimated and not detected.

The MS/MSD percent recoveries and RPDs were within laboratory acceptable criteria.

Semi-Volatile Organic Compounds (SVOCs) by EPA method 8270E

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The method blank was clean at the reporting limits.

A trip blank was not provided for these samples. The data does not require qualification on this basis.

The LCS/LSD recoveries and RPDs were within the laboratory acceptable criteria.

The calibration results for nitrobenzene in sample T4-48 was outside the upper laboratory acceptance criteria. Since the analyte was not detected in the samples no qualifier is required.

The calibration results for 2-nitrophenol, hexachlorocyclopentadiene, 4-nitroaniline, 4,6-dinitro-2-methylphenol, benzoic acid, benzyl butyl phthalate, and 2,4-dinitrophenol were outside the lower laboratory acceptance criteria. 2-Nitrophenol, hexachlorocyclopentadiene, 4-nitroaniline, 4,6-dinitro-2-methylphenol for samples T4-48, T5-58, and T13-65 will be qualified “UJ” as estimated and not detected. Additionally benzoic acid and benzyl butyl phthalate for T4-48 and 2,4-dinitrophenol for T5-58 and T13-65 will be qualified “UJ”.

Metals by EPA method 6020B

The samples were prepared and analyzed within the recommended holding times.

The method blank was clean at the reporting limits.

The MS/MSD percent recoveries and RPDs were within laboratory acceptable criteria.

The LCS recoveries were within the laboratory acceptable criteria.

Field Duplicate Evaluation

RPDs were calculated for the results of sample T5-58 and duplicate T13-65. Field Duplicate RPD calculations are included in Attachment A.

Gasoline range, lead, benzene, toluene, and naphthalene will be qualified "J" as estimated for T5-58 and T13-65.

Data Qualification

No data required rejection. All data can be used for decision-making purposes. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

The following analytes will be qualified “J” as estimated or “UJ” as estimated and not detected:

- T5-58: Gasoline range, lead, benzene, toluene, and naphthalene will be qualified "J". 2-nitrophenol, hexachlorocyclopentadiene, 4-nitroaniline, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol will be qualified “UJ”.

- T13-65: Gasoline range, lead, benzene, toluene, and naphthalene will be qualified "J". 2-Nitrophenol, hexachlorocyclopentadiene, 4-nitroaniline, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol will be qualified “UJ”.

- T7-80: Hexachlorocyclopentadiene will be qualified “UJ“. Arsenic, barium, chromium, and lead will be qualified “J”.

- T6-20: All VOCs will be qualified “J” or “UJ”.
- T6-55: All VOCs will be qualified “UJ”. Hexachlorocyclopentadiene and 4-nitroaniline will be qualified “UJ”. Arsenic will be qualified “J”.
- T5-25: Acetone will be qualified “UJ”.
- T4-48: 2-nitrophenol, hexachlorocyclopentadiene, 4-nitroaniline, 4,6-dinitro-2-methylphenol, benzoic acid and benzyl butyl phthalate will be qualified “UJ”.
- Trip blank: Acetone will be qualified “UJ”.

References

EPA (U.S. Environmental Protection Agency). 2002. Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8. EPA240R-02/004.

EPA. 2020a. National Functional Guidelines for Inorganic Superfund Data Review. EPA 540R- 2017-001. November.

EPA. 2020b. National Functional Guidelines for Organic Superfund Data Review. EPA 542-R-20-006. November.

Attachment A

Field Duplicate Relative Percent Difference Calculations

DTG Yakima Field Duplicate Relative Percent Difference Calculations

553-8472-010

Soil Sampling July and August 2025

Sample Date: 7/25/2025, 8/9/2025, 8/19/2025, and 8/21/2025

Sample analyses: NWTPH-Dx/Gx, VOCs, SVOCs, RCRA Metals

F&BI Work Order 507504: T7-70 and T7-80

F&BI Work Order 508198: T6-20 and T6-55

F&BI Work Order 508382: T4-20, T4-48, T5-25, T5-58, T13-65, and Trip Blank

DUP T13-65 collected at T5-58

Completed by: Katie Burke 1/9/2025

Soil	sample	duplicate	avg	diff	RPD	=/<25%?	RL	w/in RL?
units = mg/kg	T5-58	T13-65						
TPH								
Gasoline Range	15	8.7	11.85	6.3	53.2	n	5	n
Diesel Range	<50	<50	n/a	n/a	n/a	y	50	
Motor Oil Range	<200	<200	n/a	n/a	n/a	y	200	
Metals								
Arsenic	1.1	<1	1.10	n/a	n/a		1	y
Barium	32	34	33	2	6.1	y	1	
Cadmium	<1	<1	1	0	0.0		1	y
Lead	13	3.8	8.4	9.2	109.5	n	1	n
Mercury	<1	<1	n/a	n/a	n/a		1	y
Selenium	<1	<1	n/a	n/a	n/a		1	y
Silver	<1	<1	n/a	n/a	n/a		1	y
Chromium	<5	<5	n/a	n/a	n/a		5	y
units = µg/m³								
VOCs								
Benzene	0.15	0.085	0.12	0.065	55.3	n	0.002	n
Toluene	0.30	0.20	0.25	0.10	40.0	n	0.002	n
Ethylbenzene	1.2	1.1	1.15	0.1	8.7	y	0.002	
m,p-Xylene	0.33	0.32	0.33	0.01	3.1	y	0.004	
o-Xylene	0.21	0.20	0.21	0.01	4.9	y	0.002	
Isopropylbenzene	0.88	0.94	0.91	0.06	6.6	y	0.05	
n-Propylbenzene	0.12	0.11	0.12	0.01	8.7	y	0.05	
1,3,5-Trimethylbenzene	0.12	0.11	0.12	0.01	8.7	y	0.05	
1,2,4-Trimethylbenzene	0.20	0.18	0.19	0.02	10.5	y	0.05	
p-Isopropyltoluene	0.41	0.35	0.38	0.06	15.8	y	0.05	
Naphthalene	0.071	0.028	0.05	0.043	86.9	n	0.01	n

Comments: Gasoline range, lead, benzene, toluene, and naphthalene will be qualified "J" as estimated.

Parametrix
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Memorandum

DATE:	December 1, 2025
TO:	Project File
FROM:	Katie Burke
SUBJECT:	October 2025 Air and Gas Data Quality Evaluation
CC:	Mike Brady
PROJECT NUMBER:	553-8472-010
PROJECT NAME:	Rocky Top Environmental Thermistor Install Report

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A data quality evaluation was conducted for the reference intake air and gas sampling event at the DTG Yakima Limited Purpose Landfill (LPL). Samples were collected on October 6, 2025, by Parametrix under contract to DTG. The samples were analyzed by Friedman & Bruya, Inc (F&BI) and subcontractor Alliance Technical Group, LLC (Alliance) under the following Work Orders:

- F&BI Work Order 510109: AMB-1, AMB-6, AMB-11, AMB-13, AMB-16, AMB-25, GP-2, GP-3, GP-20, T3, T4S, T4D, T5S, T5D, T6S, T6D, T7S, and T7D.
- Alliance Work Order 2510235: GP-2, GP-3, GP-20, T3, T4S, T4D, T5S, T5D, T6S, T6D, T7S, and T7D.

There were two Summa canisters per gas probe (GP) sample location. The data were evaluated in accordance with EPA guidance (EPA 2020a, 2020b, and 2009) at a Stage 2A level. Sample AMB-25 is a field duplicate of AMB-13.

Field Narrative

Ambient air and gas probe sampling field data sheets were provided by Parametrix.

Laboratory Case Narrative

Samples collected on October 6, 2025, were received by F&BI on October 7, 2025. The samples were received at F&BI at a temperature of 19 degrees C. Samples are not required to be kept on ice in accordance with method requirements. Subcontractor Alliance received samples on October 8, 2025.

Work Order 510109

Volatile Organic Compounds by Method MA-APH

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The laboratory duplicates were not detected therefore relative percent differences (RPDs) are not applicable.

The laboratory control sample (LCS) recoveries were within the laboratory control limits.

Volatile Compounds by Method TO-15

The samples were prepared and analyzed within the recommended holding times.

The surrogate recoveries were all within the laboratory acceptable limits.

The laboratory duplicate RPDs were within the laboratory control limits.

The LCS recoveries were within the laboratory control limits except for 4-methyl-2-pentanone which exceeded the upper control limit. Since the analyte was not detected in any samples no qualifier is required.

The AMB-13 sample for naphthalene was detected between the method detection limit and the reporting limit and will be qualified "J" as estimated.

Ethylbenzene in sample GP-20 was flagged by the laboratory due to possible detection from carryover from previous sample injections. The detection will be qualified "J" as estimated.

The calibration standard for 4-methyl-2-pentanone in all samples exceeded acceptance criteria, biased high. Since the analyte was not detected in any samples, no qualifier is required.

The following samples and analyte responses exceeded the valid instrument calibration range:

- GP-2: benzene
- GP-20: propene, benzene
- T3: acetone, benzene
- T4S: propene, acetone, benzene
- T4D: acetone, 2-butanone
- T5S: acetone, 2-propanol, toluene, ethylbenzene
- T5D: benzene, ethylbenzene
- T7D: propene, benzene, butane, pentane, toluene, ethylbenzene, isopropylbenzene

Detections in these samples will be qualified "J" and non-detected samples "UJ" as estimated.

Work Order 2510235

Major Gases by EPA Method 3C

- The sample was digested and analyzed within the recommended holding times. One QC sample is flagged "H" by the laboratory as analysis out- of- hold time, but this appears to be an error.
- The laboratory duplicate RPDs were within the laboratory control limits.
- The LCS recoveries were within the laboratory control limits.

Field Duplicate Evaluation

Relative Percent Differences (RPDs) were calculated for the results of sample AMB-13 and duplicate AMB-25. Field Duplicate RPD calculations are included in Attachment A.

The duplicate percent RPDs were within control limits for all analytes.

Data Qualification

No data required rejection. All data can be used for decision-making purposes. The quality of the data generated during this investigation is acceptable for the preparation of technically defensible documents.

The following analytes will be qualified “J” or “UJ” as estimated or estimated and not detected:

- AMB-13: Naphthalene
- GP-2: Benzene
- GP-20: Ethylbenzene, propene, benzene
- T3: Acetone, benzene
- T4S: Propene, acetone, benzene
- T4D: Acetone, 2-butanone
- T5S: Acetone, 2-propanol, toluene, ethylbenzene
- T5D: Benzene, ethylbenzene
- T7D: Propene, butane, pentane, benzene, toluene, ethylbenzene, isopropylbenzene

References

EPA (U.S. Environmental Protection Agency). 2002. Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8. EPA240R-02/004.

EPA. 2020a. National Functional Guidelines for Inorganic Superfund Data Review. EPA 540R- 2017-001. November.

EPA. 2020b. National Functional Guidelines for Organic Superfund Data Review. EPA 542-R-20-006. November.

Attachment A

Field Duplicate Relative Percent Difference Calculations

DTG Yakima Field Duplicate Relative Percent Difference Calculations

553-8472-010

Air and Gas Sampling October 2025

Sample Date: 10/6/2025

Sample analyses: TO-15, MA-APH, and EPA Method 3C

F&BI Work Order 510109: AMB-1, AMB-6, AMB-11, AMB-13, AMB-16, AMB-25, GP-2, GP-3, GP-20, T3, T4S, T4D, T5S, T5D, T6S, T6D, T7S, and T7D.

Alliance Work Order 2510235: GP-2, GP-3, GP-20, T3, T4S, T4D, T5S, T5D, T6S, T6D, T7S, and T7D.

DUP AMB-25 collected at AMB-13

Completed by: Katie Burke 12/1/2025

Ambient Air	sample	duplicate	avg	diff	RPD	=/<25%?	RL	w/in RL?
units = µg/m³	AMB-13	AMB-25						
VOCs								
Acetone	<7.1	8.6	8.60	n/a	n/a		7.1/57	y
Acrolein	0.48	0.56	0.52	0.08	15.4	y	1.3	
Benzene	1.2	1.3	1.25	0.1	8.0	y	0.38	
Carbon tetrachloride	0.45	0.47	0.46	0.02	4.3	y	0.37	
Dichlorodifluoromethane	2.0	2.2	2.10	0.2	9.5	y	1.2	
Naphthalene	0.065	0.16	0.11	0.095	84.4	n	0.11	y
Propene	<1.7	1.7	1.70	n/a	n/a		1.4/1.7	y
APH aliphatics								
(None detected)								

Comments: No additional flags other than laboratory qualifiers