

Soil Gas and Ambient Air Sampling Report

Summary of December 8, 2021 & January 21, 2022 Sampling Events

SUBMITTED TO:



DTG Recycling Group

41 Rocky Top Road, Yakima, WA, 98908

SUBMITTED BY:



1100 Jadwin Avenue, Ste. 250, Richland, WA, 99352

February 25, 2022

AIR SAMPLING REPORT

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INTRODUCTION

This report summarizes field activities and analytical results associated with soil gas sampling conducted December 8, 2021 and follow-up ambient air sampling conducted January 21, 2022, at the DTG Recycling Group landfill, located at 41 Rocky Top Road, in Yakima, Washington. Sampling activities were conducted by Freestone Environmental Services (Freestone). Freestone's field activity reports are included in Appendix A.

Soil gas and ambient air sampling were performed to supplement recent investigations made by DTG Staff and Department of Health representatives. The northeastern toe and western slope of the landfill (where sloughing of the landfill face has opened stress fractures in the upper soil horizon) indicates a possible source of fugitive odors emanating from the landfill operations. The occurrence of the odors, which are described as typical landfill odors, is variable and most noticeable in stable to stagnant atmospheric conditions. The intensity of the odors is greatest in areas where fractures in the earth are visibly venting or in once open-fractured areas that have then been purposely covered. DTG has initiated efforts to fill/cap the fractures to mitigate the release of odor-causing gases. Initial soil gas sampling was conducted on December 8, 2021, to characterize the odor-causing gasses. Based on the initial sampling results, DTG requested additional ambient air sampling at the landfill boundary, near surface fractures, and at specified intervals from a surface fracture. This ambient air sampling was conducted on January 21, 2022. Analytical results for both sampling events are summarized in this report.

DECEMBER 2021 FIELD SAMPLING ACTIVITIES

Freestone and DTG Staff measured surface temperature readings using an infrared temperature gauge and marked three sample locations with field marker flags near the supposed source of the odors during routine quarterly methane monitoring on December 3, 2021. The three proposed sample locations are in different locations than the routine quarterly methane monitoring.

Surface and subsurface temperatures were recorded on December 8, 2021, at each sampling location using an infrared temperature gauge and digital thermometer, respectively. These measurements are provided in Table 1.

Soil gas samples were collected from the three previously marked locations on December 8, 2021. The weather conditions were partly cloudy, windy, and 46°F at the time of sampling. All soil gas samples were collected using a hand-pump

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attached to a vacuum air sample box equipped with a 1.0-liter (L) Tedlar bag. Prior to sample collection, a minimum of 2 liters were evacuated from the tubing to ensure a representative sample. For the sample collection, the soil gas was drawn into the Tedlar bag, which was filled to the consistency of a 'soft pillow'. Two (2) samples were collected at each sampling location. The second sample was a backup sample in the event of a leak from the first sample. Only one (1) soil gas sample was tested by the laboratory from each location. Field activity photos are included in Appendix A.

After soil gas sample collection, each Tedlar bag was labeled with a sample identification number (Ex. A-1). The bags were placed in a cooler. Sample information and requested analyses were recorded on a signed chain of custody form and placed into the shipping container (the chain of custody can be found in Appendix B and C). The samples were shipped next day early air via UPS to Atmospheric Analysis & Consulting, Inc. located in Ventura, California.

The three sample locations are depicted in Figure 1 below. Samples A-1 and A-2 were collected on the upper slope of the upper road on the landfill surface. Sample A-3 was collected on the upper slope of the lower road on the landfill, below where samples A-1 and A-2 were taken.

For sample locations A-1 and A-2, there were visible vapors being released from fractures in the surface. Such fractures extended roughly 8 inches below the slope surface and were about two inches in width. Given such exposure, the ¼-inch Teflon tubing was inserted directly into the crevice of sample locations A-1 and A-2 until refusal was met. An infrared temperature gauge was aimed down each fracture to measure the surface temperature in addition to a 12-inch digital thermometer to measure the subsurface.

Sample A-3 was collected on the upper slope of the lower road with no fracture present. For this sample, a soil probe was utilized to insert the Teflon tubing approximately 8 inches below ground surface (bgs). The annulus around the tubing was sealed using granular bentonite to mitigate infiltration and sampling of surface ambient air (i.e., short circuiting).

Table 1. Surface and subsurface temperatures at each sample location

Sample	Subsurface Digital Thermometer (°F)	Surface Infrared Gauge (°F)
A-1	145	149
A-2	62	61
A-3	57.4	57

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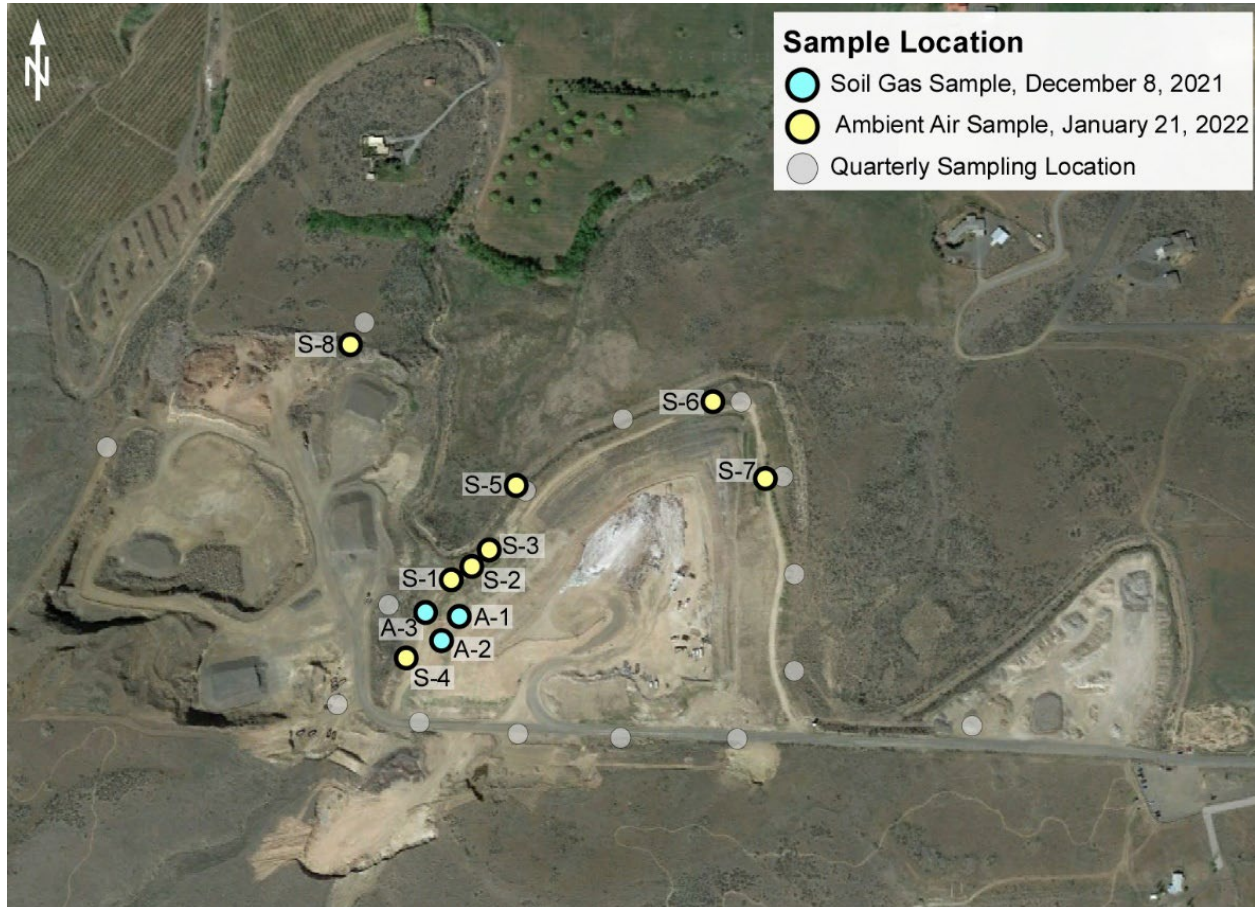


Figure 1. Soil gas sample, air sample, and quarterly methane monitoring locations at DTG Recycle

ANALYTICAL RESULTS FOR DECEMBER 2021 SAMPLING

Samples A-1, A-2, and A-3 were analyzed on December 9th for speciated sulfur compounds and December 13, 2021 for Volatile Organic Compounds (VOCs). The laboratory analytical packages for the December sampling event are included in Appendix B and C.

The soil gas samples were tested for VOCs (Table 2) and tentatively identified compounds (TICs; Table 3) using EPA Method TO-15 and for speciated sulfur compounds (Table 4) using method ASTM D5504. Tables 2 through 4 provide analytical results for detected analytes during the December 2021 soil gas sampling.

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Table 2. VOC Concentrations (ppbv)

Analyte	Soil Gas Sample Concentrations		
	A-1	A-2	A-3
1,2,4-Trimethylbenzene	2,010	754	176
1,3,5-Trimethylbenzene	2,120	696	158
1,4-Dioxane	5,570	1,620	438
2-Butanone (MEK)	14,400	2,390	U
2-Hexanone (MBK)	474	U	U
2-Propanol (IPA)	39,900	4,120	556
4-Ethyltoluene	1,830	606	130
4-Methyl-2-pentanone (MiBK)	380	U	U
Acetone	44,600	4,850	U
Benzene	116,000	25,300	1,470
Carbon Disulfide	U	586	424
Chlorobenzene	218	U	U
Chloroethane	1,110	316	U
Chloromethane	76,700	4,090	U
Cyclohexane	992	434	U
Ethanol	4,570	982	U
Ethylbenzene	13,600	9,400	2,040
Heptane	12,500	5,240	194
Hexane	19,500	8,470	150
m & p-Xylene	9,410	3,050	528
Methanol	125,000	11,900	1,290
o-Xylene	6,090	2,130	388
Propene	149,000	25,100	U
Styrene	2,320	510	114
Tetrahydrofuran	18,300	3,100	216
Toluene	17,900	11,800	1,540

U = Analyte not detected above the Sample Reporting Limit

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Table 3. Tentatively Identified Compound Concentrations (ppbv)

Analyte	Soil Gas Sample Concentrations		
	A-1	A-2	A-3
Isobutane	4770	--	--
2-Methyl-1-propene	12700	5660	--
Butane	8790	4320	--
2-Butene	5090	2140	--
Pentane	12300	6220	--
2-Methyl-2-butene	8760	--	--
2-Methylpentane	6940	3120	--
3-Methylfuran	14400	--	--
2-Methylfuran	--	4980	--
Octane	4300	--	--
4,4,5-Trimethyl-2-hexane	4320	--	--
3-Methylcyclopentene	--	3370	--
Methylcyclopentane	--	2410	--
5-Methyl-1,3-cyclopentadiene	--	2500	--
3-Methyl-1,3-pentadiene	--	16600	--
Decane	--	--	268
2-Ethyl-1-hexanol	--	--	322
2,4-Dimethyl-2-decene	--	--	212
4-Undecene	--	--	228
Undecane	--	--	518
1-Ethyl-4-ethylbenzene	--	--	222
2,3-Dihydro-4-methyl-1H-indene	--	--	228
Dodecane	--	--	378
2,4-diethyl-1-methylbenzene	--	--	222

"--" = Not identified for this sample

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Table 4. Speciated Sulfur Concentrations (ppmv)

Analyte	Soil Gas Sample Concentrations		
	A-1	A-2	A-3
Hydrogen Sulfide	12.4	0.49	U
COS/SO ₂	0.472	0.055	0.137
Methyl Mercaptan	11.9	1.75	U
Ethyl Mercaptan	0.091		U
Dimethyl Sulfide	18.3	6.34	U
Carbon Disulfide	0.141	U	U
sec-Butyl Mercaptan / Thiophene	1.08	0.329	U
Dimethyl Disulfide	0.386	0.319	U
2-Methylthiophene	0.606	0.211	U
3-Methylthiophene	0.355	0.112	U
Tetrahydrothiophene	0.406	0.109	U
Total Unidentified Sulfur	1.54	0.435	U
Total Reduced Sulfurs	47.2	10.1	U

U = Analyte not detected above the Sample Reporting Limit

JANUARY 2022 FIELD SAMPLING ACTIVITIES

Based on results from the December 2021 field sampling, DTG requested further interrogation of the ambient air concentrations at locations near existing fractures and at multiple locations along the landfill boundary. Summa cannisters equipped with a regulator were used for sampling to allow for the collection of the air sample over a 2-hr time interval to account for variable ambient conditions (i.e., wind, barometric pressures, temperature, source fluctuations). This time interval approach is a better assessment of variable ambient outdoor conditions compared to an instantaneous sample. Additionally, summa cannisters were chosen over Tedlar bags to allow for a greater sample hold time, more accurate ppbv-level analysis, and the cannisters ability to capture samples in the relative breathing zone of workers. On January 21, 2022, Freestone and DTG staff walked down the proposed boundary sample locations and the landfill surface sample locations. It was anticipated that surface fractures similar to the December sampling would be evident in January, however, ongoing landfill cover activities resulted in no actively venting fractures at the landfill surface. A non-venting fracture was identified at location S-1 and ambient air samples were collected from the immediate area surrounding the fracture. As depicted in Figure 1, four (4) samples were collected from the landfill boundary. Three (3) surface samples were collected

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from the vicinity of a fracture at intervals: within 1 ft, 5 ft, and 15 ft from the fracture, and one (1) upwind sample was collected for background comparison.

After sample collection the summa cannisters were packaged for shipping. Sample information and requested analyses were recorded on a signed chain of custody form (Appendix D) and placed into the shipping container. The samples were shipped ground via UPS to Atmospheric Analysis & Consulting, Inc. located in Ventura, California.

The weather conditions were partly cloudy and 37°F at the time of sampling. Wind conditions were variable between 0-3 mph and from a south-westerly direction. Prior to sample collection, all summa cannisters were placed in the sampling locations and positioned approximately 3-ft above ground surface. Surface temperatures were recorded at each sampling location using an infrared temperature gauge. For the sample collection, the flow regulator on the summa cannister was opened and time-on was recorded. The summa cannisters were monitored during the sampling period and the intake valve was closed leaving some vacuum pressure in the canister per the laboratory protocol. Sampling information is summarized in Table 5.

Table 5. Ambient Air Sample Collection Information

Sample	Sample Location	Surface Temperature at Sample Location (°F)	Time On	Time Off
S-1	Fracture	54	1249	1456
S-2	5-ft downwind	44	1250	1443
S-3	15-ft downwind	49	1250	1445
S-4	Upwind	34	1246	1440
S-5	Boundary	31	1300	1455
S-6	Boundary	44	1257	1446
S-7	Boundary	31	1253	1448
S-8	Boundary	45	1233	1415

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ANALYTICAL RESULTS FOR JANUARY 2022 SAMPLING

Samples S-1, S-2, S-3, S-4, S-5, S-6, S-7, and S-8 were analyzed for VOCs and TICs using EPA Method TO-15 on January 27, 2022. Speciated sulfur compounds were not analyzed for this sampling event given that the primary objective was to identify the ambient distribution of the higher-risk organic compounds measured during the December 2021 sampling event. The laboratory analytical packages for the January sampling event are included in Appendix D. Tables 6 through 8 provide analytical results for detected analytes identified using EPA Method TO-15. Table 6 provides the VOC analytical results in ppbv and Table 7 provides a conversion to $\mu\text{g}/\text{m}^3$ so that the results can be compared to Model Toxics Control Act (MTCA) Method B and C cleanup levels. MTCA Method B and C cleanup levels are provided for reference only. MTCA regulations apply to the cleanup and prevention of contaminated sites and therefore may not be applicable for decision making at this location. The TIC compounds provided in Table 8, are for information only since they were provided in the laboratory analytical report.

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Table 6. VOC Concentrations (ppbv)

Analyte	Ambient Air Sample Concentrations							
	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U
1,4-Dioxane	U	U	U	U	U	U	U	U
2-Butanone (MEK)	U	U	1.95	U	U	U	U	U
2-Hexanone (MBK)	U	U	U	U	U	U	U	U
2-Propanol (IPA)	U	U	U	U	U	U	U	U
4-Ethyltoluene	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone (MiBK)	U	U	U	U	U	U	U	U
Acetone	3.64	3.76	10.9	U	U	3.57	U	U
Benzene	13.3	13.0	26.8	U	U	U	U	U
Carbon Disulfide	U	U	U	U	U	U	U	U
Chlorobenzene	U	U	U	U	U	U	U	U
Chloroethane	U	U	U	U	U	U	U	U
Chloromethane	12.7	10.1	17.7	U	U	U	U	U
Cyclohexane	U	U	U	U	U	U	U	U
Ethanol	U	U	7.46	U	U	U	U	U
Ethyl Acetate	U	U	2.69	U	U	U	U	U
Ethylbenzene	1.85	1.99	5.82	U	U	U	U	U
Heptane	1.16	U	3.05	U	U	U	U	U
Hexane	1.96	1.84	4.02	U	U	U	U	U
m & p-Xylene	U	U	1.91	U	U	U	U	U
Methanol	U	U	28.8	U	U	U	9.46	U
o-Xylene	U	U	U	U	U	U	U	U
Propene	23.6	18.0	35.6	U	U	U	U	U
Styrene	U	U	U	U	U	U	U	U
Tetrahydrofuran	U	U	U	U	U	U	U	U
Toluene	4.49	3.98	23.8	U	U	U	U	U

U = Analyte not detected above the Sample Reporting Limit

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Table 7. VOC Concentrations Compared to MTCA Cleanup Levels ($\mu\text{g}/\text{m}^3$)

Analyte	Ambient Air Sample Concentrations								MTCA CULs*	
	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	Method B Noncancer	Method C Noncancer
1,2,4-Trimethylbenzene	U	U	U	U	U	U	U	U	27	60
1,3,5-Trimethylbenzene	U	U	U	U	U	U	U	U	27	60
1,4-Dioxane	U	U	U	U	U	U	U	U	14	30
2-Butanone (MEK)	U	U	5.7	U	U	U	U	U	2,300	5,000
2-Hexanone (MBK)	U	U	U	U	U	U	U	U	NA	NA
2-Propanol (IPA)	U	U	U	U	U	U	U	U	91	200
4-Ethyltoluene	U	U	U	U	U	U	U	U	NA	NA
4-Methyl-2-pentanone (MiBK)	U	U	U	U	U	U	U	U	1,400	3,000
Acetone	8.6	8.9	25.9	U	U	8.5	U	U	14,000	31,000
Benzene	42.5	41.5	85.6	U	U	U	U	U	14	30
Carbon Disulfide	U	U	U	U	U	U	U	U	320	700
Chlorobenzene	U	U	U	U	U	U	U	U	23	50
Chloroethane	U	U	U	U	U	U	U	U	NA	NA
Chloromethane	26.2	20.9	36.6	U	U	U	U	U	41	90
Cyclohexane	U	U	U	U	U	U	U	U	2,700	6,000
Ethanol	U	U	14.1	U	U	U	U	U	NA	NA
Ethylbenzene	8.0	8.6	25.3	U	U	U	U	U	460	1,000
Heptane	4.8	U	12.5	U	U	U	U	U	180	400
Hexane	6.9	6.5	14.2	U	U	U	U	U	320	700
m & p-Xylene	U	U	U	U	U	U	U	U	46	100
Methanol	U	U	37.7	U	U	U	12.4	U	9,100	20,000
o-Xylene	U	U	U	U	U	U	U	U	46	100
Propene	40.6	31.0	61.3	U	U	U	U	U	NA	NA
Styrene	U	U	U	U	U	U	U	U	460	1,000
Tetrahydrofuran	U	U	U	U	U	U	U	U	910	2,000
Toluene	16.9	15.0	89.7	U	U	U	U	U	2,300	5,000

*MTCA CULs derived from Cleanup Levels and Risk Calculations (CLARC) tables

NA = Analyte does not have a cleanup level in the CLARC tables

U = Analyte not detected above the Sample Reporting Limit

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Table 8. Tentatively Identified Compound Concentrations (ppbv)

Analyte	Ambient Air Sample Concentrations							
	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8
Isobutane	--	--	--	--	--	--	--	--
2-Methyl-1-propene	4.86	4.88	7.37	--	--	--	--	--
2-Methylbutane	--	--	--	--	4.37	--	--	--
Butane	3.54	3.86	6.81	--	--	--	--	--
2-Butene	--	--	--	--	--	--	--	--
Pentane	--	3.96	9.07	--	--	--	--	--
2-Methyl-2-butene	4.65	1.89	3.12	--	--	--	--	--
2-Methylpentane	--	--	--	--	--	--	--	--
3-Methylfuran	--	--	--	--	--	--	--	--
2-Methylfuran	--	--	2.51	--	--	--	--	--
Octane	--	--	1.73	--	--	--	--	--
Hexamethylcyclotrisiloxane	--	--	5.04	--	--	--	--	--
2,2,6-Trimethyloctane	--	--	4.07	--	--	--	--	--
4,4,5-Trimethyl-2-hexane	--	--	--	--	--	--	--	--
3-Methylcyclopentene	--	--	--	--	--	--	--	--
Methylcyclopentane	--	--	--	--	--	--	--	--
5-Methyl-1,3-cyclopentadiene	--	--	--	--	--	--	--	--
3-Methyl-1,3-pentadiene	--	--	--	--	--	--	--	--
Decane	--	--	1.70	--	--	--	--	--
1-Methyl-4-(1-methylethyl)-benzene	--	--	8.02	--	--	--	--	--
2-Ethyl-1-hexanol	--	--	--	--	--	--	--	--
2,4-Dimethyl-2-decene	--	--	--	--	--	--	--	--
4-Undecene	--	--	--	--	--	--	--	--
Undecane	--	--	--	--	--	--	--	--
1-Ethyl-4-ethylbenzene	--	--	--	--	--	--	--	--
2,3-Dihydro-4-methyl-1H-indene	--	--	--	--	--	--	--	--
Dodecane	--	--	--	--	--	--	--	--
2,4-diethyl-1-methylbenzene	--	--	--	--	--	--	--	--
Propane	--	--	--	--	--	1.74	--	--

"--" = Not identified for this sample

OBSERVATIONS

The following observations are made based on the sampling results:

- Soil gas concentrations from samples collected December 2021, were highest (as expected) at the actively venting fracture locations A-1 and A-2. Elevated concentrations, particularly of VOC compounds correlated with heavy odors during the sample collection event.
- Soil gas concentrations were significantly lower at the A-3 location where venting was not occurring.
- The detected VOC compounds were similar at all three soil gas sampling locations A-1, A-2, and A-3 suggesting similar sources.
- Compared to the December 2021 analytical results, January 2022 were significantly lower or not detected, even in the three samples collected from the shallow fracture (samples S-1, S-2, and S-3). This was expected given that the January 2022 samples were collected from the ambient air and therefore subject to greater natural diffusion and dilution.
- VOC concentrations from the landfill boundary sample locations are largely non-detect except for occasional detections of acetone and methanol which are common laboratory contaminants.
- Because of the uncertainty of the identification of the TICs, the interpretation of the results and their meaning to this project is difficult.
- The detected analytes evident at the landfill surface locations in December 2021 and January 2022 are associated with a variety of sources including plastics, fuels, solvents, lubricants, and other decaying organic compounds. The benzene, toluene, ethylbenzene, and xylene (BTEX) compounds are typically associated with gasoline and diesel-range organics (i.e., fuels).
- The nature and concentration of detected analytes warrant increased consideration of PPE and IH monitoring while working proximate to the actively vented fracture locations. Ambient concentrations appear to dissipate quickly along the working surface of the landfill and particularly at the further reaches of the landfill boundary.

APPENDIX A

FIELD SUMMARY REPORTS AND PHOTOS



Freestone Environmental Services, Inc.
 1100 Jadwin Ave, Suite 250
 Richland, Washington 99352
 509-943-5222

Field Report

Date: 12/8/2021	Client: DTG Recycle
Location: DTG Landfill	Project: DTG
Field Personnel: Tracy & Brooke	Weather: Partly Cloudy, Windy Temperature: 46°F


Time (24 Hours):	Activities:
1000	Meet with DTG, check in at office & obtain a 4-gas meter (GasAlertMax XTII), date 2/5/20 SN# MA216-034/e36
1020	Find out UPS drop off time for sample ~4pm
1200	Locate sample locations & discuss sample strategy in wind. O ₂ = 20.9% at sample locations.
1230	Setting up sampling equipment
1336	Collecting sample A-1 from event
1342	Collecting sample A-1 backup
1336	Surface Temp = 149°F aimed down vent
1336	Ground Temp = 145°F w/ probe
1355	Collecting sample A-2 from event
1358	Collecting sample A-2 backup
1354	Surface Temp = 61°F
1354	Ground Temp = 62°F w/ probe
1425	Collect sample A-3 from hillside
1428	Collect sample A-3 backup
1417	Surface Temp = 57°F
1417	Ground Temp = 57.4°F w/ probe
1445	Check out at office & head to UPS to ship samples.
1515	Ship samples via UPS Next day air early.
1520	Head back to Freestone
Not Used 12/8/2021	

Signature:	Date: 12/8/2021
Reviewed By:	Date:

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Field Report

Date: 1/21/2022	Client: DTG Recycle
Location: DTG Landfill	Project: DTG
Field Personnel: Brooke, Tracy	Weather: Clear, Partly Cloudy Temperature: 37°F

Time (24 Hours):	Activities:
0915	Freestone on site + signed in at main office. Met Brooks & picked up 4-Gas Monitor
0930	FES + DTG looking for actively venting crack - no venting found.
1030	Discussion with DTG - John, still collect samples at a crack & boundary - Ok if not venting.
1115	1st canister placed on 1" crack, 54°F
1123	2nd canister placed 5' downwind, 44°F
1130	3rd canister placed 15' downwind of crack, 49°F
1135	4th canister placed, Upwind canister, 34°F
1154	5th canister placed 1st boundary, 31°F
1157	6th canister placed 2nd boundary, 44°F
1203	7th canister placed 3rd boundary, 31°F
1230	8th canister placed, 4th boundary, 45°F
1233	Time on 8th canister (S-8)
1246	Time on 4th canister (S-4)
1249	Time on 1st canister (S-1)
1250	Time on 2nd canister (S-2)
1250	Time on 3rd canister (S-3)
1253	Time on 7th canister (S-7)
1257	Time on 6th canister (S-6)
1300	Time on 5th canister (S-5)
1415	Turn off S-8 canister, 9 inHg remain
1440	Turn off S-4 canister, 12 inHg remaining
1443	Turn off S-2 canister 5 inHg
1445	Turn off S-3 canister 4 inHg
1448	Turn off S-7 canister 6 inHg
Signature: 	Date: 1/21/22
Reviewed By: N/A	Date: N/A

 OFF
 0 S-6 1446
 14 S-1 1450



Freestone Environmental Services, Inc.
 1100 Jadwin Ave, Suite 250
 Richland, Washington 99352
 509-943-5222

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Field Report

Date: 1/21/2022 Client: DTG Recycle

Location: DTG Land Project: DTG

Field Personnel: Tracy Mallgren/Berk Weather: Clear Temperature:

Time (24 Hours)	Activities:
1446	Turn off S-6 canister, 0 in Hg
1455	Turn off S-5 canister, 9 in Hg
1456	Turn off S-1 canister, 14 in Hg
1515	Sign out of office + close out canisters for return

Signature: [Signature] Date: 1/21/22

Reviewed By: N/A Date: N/A

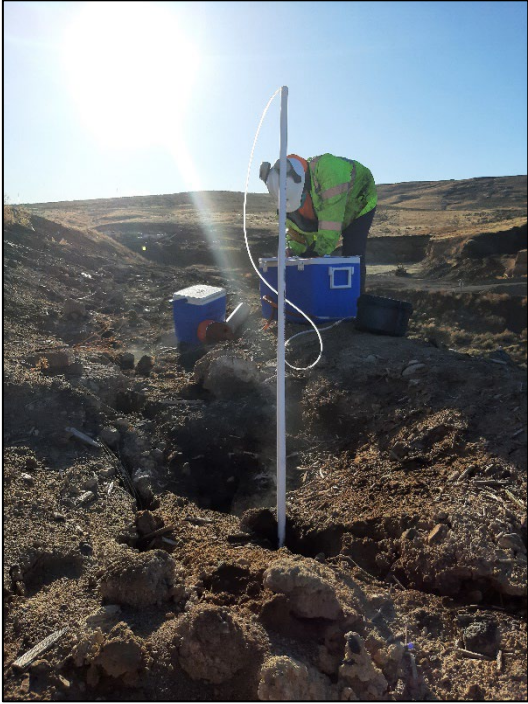


Photo 1: Sampling at location A-1.
December 8, 2021



Photo 2: View of sampling down the vent at
location A-1. December 8, 2021



Photo 3: Sampling at location A-3.
December 8, 2021



Photo 4: Bentonite seal used during sampling
at location A-3. December 8, 2021



Photo 5: Sampling at location S-1.
January 21, 2022



Photo 6: View of air sampling at S-1,
S-2 and S-3. January 21, 2022



Photo 7: Sampling at location S-4.
January 21, 2022



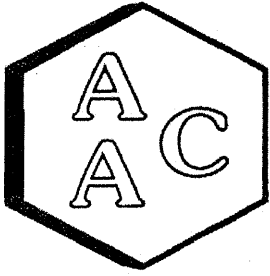
Photo 8: Air sampling at location S-6.
January 21, 2022

AIR SAMPLING REPORT

DTG Recycling Group

APPENDIX B

**DECEMBER SOIL GAS SAMPLING
ANALYTICAL LABORATORY REPORT FOR EPA
METHOD TO-15 – VOLATILE ORGANIC
COMPOUNDS AND TENTATIVELY IDENTIFIED
COMPOUNDS**



Atmospheric Analysis & Consulting, Inc.

CLIENT : Freestone Environmental
PROJECT NAME : DTG Recycle
AAC PROJECT NO. : 212309
REPORT DATE : 12/21/2021

On December 9, 2020, Atmospheric Analysis & Consulting, Inc. received three (3) Tedlar bags for Volatile Organic Compounds and Tentatively Identified Compounds (TICs) analysis by EPA Method TO-15. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab ID
Sample A-1	212309-26290
Sample A-2	212309-26292
Sample A-3	212309-26294

This analysis is accredited under the laboratory's ISO/IEC 17025:2017 accreditation issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1908. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacalab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. These samples were received in Tedlar Bags, which are considered inappropriate containers by EPA Method TO-15. Per NELAC requirements the analytical results should be considered estimated for these samples. AAC originally received six (6) samples, but per client request the analysis of samples "Sample A-1 backup", "Sample A-2 backup" & "Sample A-3 backup" were placed on hold. No other problems were encountered during receiving, preparation, and/or analysis of these samples.

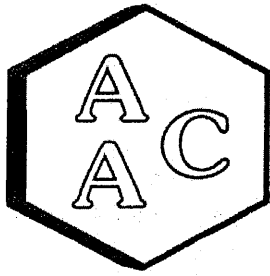
The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 13 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

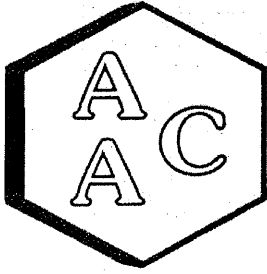
CLIENT : Freestone Environmental
 PROJECT NO : 212309
 MATRIX : AIR
 UNITS : PPB (v/v)

DATE RECEIVED : 12/09/2021
 DATE REPORTED : 12/21/2021
 ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Sample A-1			Sample Reporting Limit (SRL)	Sample A-2			Sample Reporting Limit (SRL)	Method Reporting Limit (MRL)
	AAC ID	Result	Qualifier		Analysis DF	Result	Qualifier		
Date Sampled	12/08/2021				12/08/2021				
Date Analyzed	12/13/2021				12/13/2021				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	(MRL)
Chlorodifluoromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Propene	149000		2000	2000	25100		2000	2000	1.00
Dichlorodifluoromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Chloromethane	76700		2000	1000	4090		200	100	0.50
Dichlorotetrafluoroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Vinyl Chloride	<SRL	U	200	100	<SRL	U	200	100	0.50
Methanol	125000		2000	10000	11900		200	1000	5.00
1,3-Butadiene	<SRL	U	200	100	<SRL	U	200	100	0.50
Bromomethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Chloroethane	1110		200	100	316		200	100	0.50
Dichlorofluoromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Ethanol	4570		200	400	982		200	400	2.00
Vinyl Bromide	<SRL	U	200	100	<SRL	U	200	100	0.50
Acetone	44600		2000	4000	4850		200	400	2.00
Trichlorofluoromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
2-Propanol (IPA)	39900		2000	4000	4120		200	400	2.00
Acrylonitrile	<SRL	U	200	400	<SRL	U	200	400	2.00
1,1-Dichloroethene	<SRL	U	200	100	<SRL	U	200	100	0.50
Methylene Chloride (DCM)	<SRL	U	200	200	<SRL	U	200	200	1.00
Allyl Chloride	<SRL	U	200	200	<SRL	U	200	200	1.00
Carbon Disulfide	<SRL	U	200	400	586		200	400	2.00
Trichlorotrifluoroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
trans-1,2-Dichloroethene	<SRL	U	200	100	<SRL	U	200	100	0.50
1,1-Dichloroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	200	100	<SRL	U	200	100	0.50
Vinyl Acetate	<SRL	U	200	200	<SRL	U	200	200	1.00
2-Butanone (MEK)	14400		2000	2000	2390		200	200	1.00
cis-1,2-Dichloroethene	<SRL	U	200	100	<SRL	U	200	100	0.50
Hexane	19500		200	100	8470		200	100	0.50
Chloroform	<SRL	U	200	100	<SRL	U	200	100	0.50
Ethyl Acetate	<SRL	U	200	100	<SRL	U	200	100	0.50
Tetrahydrofuran	18300		200	100	3100		200	100	0.50
1,2-Dichloroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
1,1,1-Trichloroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Benzene	116000		2000	1000	25300		2000	1000	0.50





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 212309
MATRIX : AIR
UNITS : PPB (v/v)

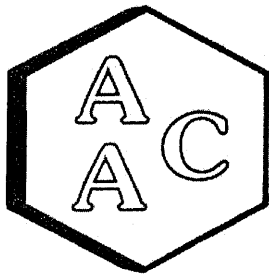
DATE RECEIVED : 12/09/2021
DATE REPORTED : 12/21/2021
ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	Sample A-1			Sample Reporting Limit (SRL) (MRLxDF's)	Sample A-2			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
	AAC ID	Result	Qualifier		212309-26290	Result	Qualifier		
Date Sampled	12/08/2021				12/08/2021				
Date Analyzed	12/13/2021				12/13/2021				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	(MRL)
Carbon Tetrachloride	<SRL	U	200	100	<SRL	U	200	100	0.50
Cyclohexane	992		200	100	434		200	100	0.50
1,2-Dichloropropane	<SRL	U	200	100	<SRL	U	200	100	0.50
Bromodichloromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
1,4-Dioxane	5570		200	200	1620		200	200	1.00
Trichloroethene (TCE)	<SRL	U	200	100	<SRL	U	200	100	0.50
2,2,4-Trimethylpentane	<SRL	U	200	100	<SRL	U	200	100	0.50
Heptane	12500		200	100	5240		200	100	0.50
cis-1,3-Dichloropropene	<SRL	U	200	100	<SRL	U	200	100	0.50
4-Methyl-2-pentanone (MiBK)	380		200	100	<SRL	U	200	100	0.50
trans-1,3-Dichloropropene	<SRL	U	200	100	<SRL	U	200	100	0.50
1,1,2-Trichloroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Toluene	17900		200	100	11800		200	100	0.50
2-Hexanone (MBK)	474		200	200	<SRL	U	200	200	1.00
Dibromochloromethane	<SRL	U	200	100	<SRL	U	200	100	0.50
1,2-Dibromoethane	<SRL	U	200	100	<SRL	U	200	100	0.50
Tetrachloroethene (PCE)	<SRL	U	200	100	<SRL	U	200	100	0.50
Chlorobenzene	218		200	100	<SRL	U	200	100	0.50
Ethylbenzene	13600		200	100	9400		200	100	0.50
m & p-Xylene	9410		200	200	3050		200	200	1.00
Bromoform	<SRL	U	200	100	<SRL	U	200	100	0.50
Styrene	2320		200	100	510		200	100	0.50
1,1,2,2-Tetrachloroethane	<SRL	U	200	100	<SRL	U	200	100	0.50
o-Xylene	6090		200	100	2130		200	100	0.50
4-Ethyltoluene	1830		200	100	606		200	100	0.50
1,3,5-Trimethylbenzene	2120		200	100	696		200	100	0.50
1,2,4-Trimethylbenzene	2010		200	100	754		200	100	0.50
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	200	200	<SRL	U	200	200	1.00
1,3-Dichlorobenzene	<SRL	U	200	100	<SRL	U	200	100	0.50
1,4-Dichlorobenzene	<SRL	U	200	100	<SRL	U	200	100	0.50
1,2-Dichlorobenzene	<SRL	U	200	100	<SRL	U	200	100	0.50
1,2,4-Trichlorobenzene	<SRL	U	200	400	<SRL	U	200	400	2.00
Hexachlorobutadiene	<SRL	U	200	100	<SRL	U	200	100	0.50
BFB-Surrogate Std. % Recovery		114%				116%			70-130%

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 212309
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 12/09/2021
DATE REPORTED : 12/21/2021
ANALYST : MB

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

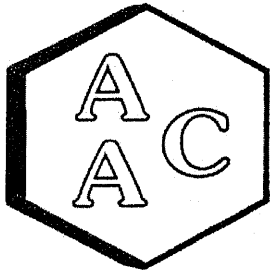
<i>Client ID</i>		<i>Sample A-1</i>	
<i>AAC ID</i>		<i>212309-26290</i>	
<i>Date Sampled</i>		<i>12/08/2021</i>	
<i>Date Analyzed</i>		<i>12/13/2021</i>	
<i>Can Dilution Factor</i>		<i>1.00</i>	
<i>Compound</i>	<i>Result*</i>	<i>Analysis DF</i>	<i>ID Quality[§]</i>
Isobutane	4770	200	86
2-Methyl-1-propene	12700	200	90
Butane	8790	200	72
2-Butene	5090	200	81
Pentane	12300	200	91
2-Methyl-2-butene	8760	200	70
2-Methylpentane	6940	200	91
3-Methylfuran	14400	200	91
Octane	4300	200	91
4,4,5-Trimethyl-2-hexene	4320	200	64
BFB-Surrogate Std. % Recovery	114%		

<i>Client ID</i>		<i>Sample A-2</i>	
<i>AAC ID</i>		<i>212309-26291</i>	
<i>Date Sampled</i>		<i>12/08/2021</i>	
<i>Date Analyzed</i>		<i>12/13/2021</i>	
<i>Can Dilution Factor</i>		<i>1.00</i>	
<i>Compound</i>	<i>Result*</i>	<i>Analysis DF</i>	<i>ID Quality[§]</i>
2-Methyl-1-propene	5660	200	90
Butane	4320	200	72
2-Butene	2140	200	81
Pentane	6220	200	90
2-Methylpentane	3120	200	91
2-Methylfuran	4980	200	94
3-Methylcyclopentene	3370	200	90
Methylcyclopentane	2410	200	91
5-Methyl-1,3-cyclopentadiene	2500	200	76
3-Methyl-1,3-pentadiene	16600	200	74
BFB-Surrogate Std. % Recovery	116%		

* Results obtained via TICs analysis are estimated.

§ Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

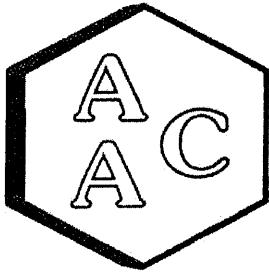
CLIENT : Freestone Environmental
PROJECT NO : 212309
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 12/09/2021
DATE REPORTED : 12/21/2021
ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

<i>Client ID</i>	<i>Sample A-3</i>			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
<i>AAC ID</i>	212309-26292				
<i>Date Sampled</i>	12/08/2021				
<i>Date Analyzed</i>	12/13/2021				
<i>Can Dilution Factor</i>	1.00				
<i>Compound</i>	Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SRL	U	200	100	0.50
Propene	<SRL	U	200	200	1.00
Dichlorodifluoromethane	<SRL	U	200	100	0.50
Chloromethane	<SRL	U	200	100	0.50
Dichlorotetrafluoroethane	<SRL	U	200	100	0.50
Vinyl Chloride	<SRL	U	200	100	0.50
Methanol	1290		200	1000	5.00
1,3-Butadiene	<SRL	U	200	100	0.50
Bromomethane	<SRL	U	200	100	0.50
Chloroethane	<SRL	U	200	100	0.50
Dichlorofluoromethane	<SRL	U	200	100	0.50
Ethanol	<SRL	U	200	400	2.00
Vinyl Bromide	<SRL	U	200	100	0.50
Acetone	<SRL	U	200	400	2.00
Trichlorofluoromethane	<SRL	U	200	100	0.50
2-Propanol (IPA)	556		200	400	2.00
Acrylonitrile	<SRL	U	200	400	2.00
1,1-Dichloroethene	<SRL	U	200	100	0.50
Methylene Chloride (DCM)	<SRL	U	200	200	1.00
Allyl Chloride	<SRL	U	200	200	1.00
Carbon Disulfide	424		200	400	2.00
Trichlorotrifluoroethane	<SRL	U	200	100	0.50
trans-1,2-Dichloroethene	<SRL	U	200	100	0.50
1,1-Dichloroethane	<SRL	U	200	100	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	200	100	0.50
Vinyl Acetate	<SRL	U	200	200	1.00
2-Butanone (MEK)	<SRL	U	200	200	1.00
cis-1,2-Dichloroethene	<SRL	U	200	100	0.50
Hexane	150		200	100	0.50
Chloroform	<SRL	U	200	100	0.50
Ethyl Acetate	<SRL	U	200	100	0.50
Tetrahydrofuran	216		200	100	0.50
1,2-Dichloroethane	<SRL	U	200	100	0.50
1,1,1-Trichloroethane	<SRL	U	200	100	0.50
Benzene	1470		200	100	0.50





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 212309
MATRIX : AIR
UNITS : PPB (v/v)

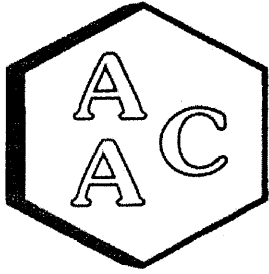
DATE RECEIVED : 12/09/2021
DATE REPORTED : 12/21/2021
ANALYST : MB

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

<i>Client ID</i>		<i>Sample A-3</i>		Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
<i>AAC ID</i>		<i>212309-26292</i>			
<i>Date Sampled</i>		<i>12/08/2021</i>			
<i>Date Analyzed</i>		<i>12/13/2021</i>			
<i>Can Dilution Factor</i>		<i>1.00</i>			
<i>Compound</i>	<i>Result</i>	<i>Qualifier</i>	<i>Analysis DF</i>		
Carbon Tetrachloride	<SRL	U	200	100	0.50
Cyclohexane	<SRL	U	200	100	0.50
1,2-Dichloropropane	<SRL	U	200	100	0.50
Bromodichloromethane	<SRL	U	200	100	0.50
1,4-Dioxane	438		200	200	1.00
Trichloroethene (TCE)	<SRL	U	200	100	0.50
2,2,4-Trimethylpentane	<SRL	U	200	100	0.50
Heptane	194		200	100	0.50
cis-1,3-Dichloropropene	<SRL	U	200	100	0.50
4-Methyl-2-pentanone (MiBK)	<SRL	U	200	100	0.50
trans-1,3-Dichloropropene	<SRL	U	200	100	0.50
1,1,2-Trichloroethane	<SRL	U	200	100	0.50
Toluene	1540		200	100	0.50
2-Hexanone (MBK)	<SRL	U	200	200	1.00
Dibromochloromethane	<SRL	U	200	100	0.50
1,2-Dibromoethane	<SRL	U	200	100	0.50
Tetrachloroethene (PCE)	<SRL	U	200	100	0.50
Chlorobenzene	<SRL	U	200	100	0.50
Ethylbenzene	2040		200	100	0.50
m & p-Xylene	528		200	200	1.00
Bromoform	<SRL	U	200	100	0.50
Styrene	114		200	100	0.50
1,1,2,2-Tetrachloroethane	<SRL	U	200	100	0.50
o-Xylene	388		200	100	0.50
4-Ethyltoluene	130		200	100	0.50
1,3,5-Trimethylbenzene	158		200	100	0.50
1,2,4-Trimethylbenzene	176		200	100	0.50
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	200	200	1.00
1,3-Dichlorobenzene	<SRL	U	200	100	0.50
1,4-Dichlorobenzene	<SRL	U	200	100	0.50
1,2-Dichlorobenzene	<SRL	U	200	100	0.50
1,2,4-Trichlorobenzene	<SRL	U	200	400	2.00
Hexachlorobutadiene	<SRL	U	200	100	0.50
BFB-Surrogate Std. % Recovery			102%		70-130%

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 212309
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 12/09/2021
DATE REPORTED : 12/21/2021
ANALYST : MB

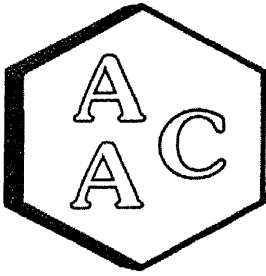
TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

<i>Client ID</i>		<i>Sample A-3</i>	
<i>AAC ID</i>		<i>212309-26292</i>	
<i>Date Sampled</i>		<i>12/08/2021</i>	
<i>Date Analyzed</i>		<i>12/13/2021</i>	
<i>Can Dilution Factor</i>		<i>1.00</i>	
<i>Compound</i>	<i>Result*</i>	<i>Analysis DF</i>	<i>ID Quality[§]</i>
Decane	268	200	95
2-Ethyl-1-hexanol	322	200	90
2,4-Dimethyl-2-decene	212	200	64
4-Undecene	228	200	93
Undecane	518	200	94
1-Ethenyl-4-ethylbenzene	222	200	76
2,3-Dihydro-4-methyl-1H-indene	228	200	83
Dodecane	378	200	93
2,4-Diethyl-1-methylbenzene	222	200	30
BFB-Surrogate Std. % Recovery	102%		

* Results obtained via TICs analysis are estimated.

§ Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 12/13/2021
 MATRIX : High Purity N₂
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
 CALIBRATION STD ID : PS101121-02
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Continuing Calibration Verification of the 12/10/2021 Calibration

Analyte Compounds	Source ¹	CCV ²	% Recovery ³	
4-BFB (surrogate standard)	10.00	10.50	105	
Chlorodifluoromethane	10.70	10.70	100	
Propene	10.90	11.11	102	
Dichlorodifluoromethane	10.30	11.42	111	
Dimethyl Ether	10.70	10.15	95	
Chloromethane	10.30	11.12	108	
Dichlorotetrafluoroethane	9.80	11.43	117	
Vinyl Chloride	10.10	12.20	121	
Acetaldehyde	20.50	21.50	105	
Methanol	16.20	17.94	111	
1,3-Butadiene	10.70	13.08	122	
Bromomethane	10.30	12.54	122	
Chloroethane	9.90	11.39	115	
Dichlorofluoromethane	10.40	12.22	118	
Ethanol	10.50	12.62	120	
Vinyl Bromide	10.60	12.41	117	
Acrolein	10.90	12.79	117	
Acetone	10.40	11.01	106	
Trichlorofluoromethane	10.20	11.22	110	
2-Propanol (IPA)	HR	10.90	14.76	135
Acrylonitrile	11.30	11.45	101	
1,1-Dichloroethene	10.70	12.05	113	
Methylene Chloride (DCM)	10.90	11.56	106	
TertButanol (TBA)	HR	10.80	14.74	136
Allyl Chloride	10.90	10.05	92	
Carbon Disulfide	10.50	11.58	110	
Trichlorotrifluoroethane	10.90	11.45	105	
trans-1,2-Dichloroethene	10.40	11.54	111	
1,1-Dichloroethane	10.30	11.01	107	
Methyl Tert Butyl Ether (MTBE)	10.80	12.75	118	
Vinyl Acetate	11.00	12.01	109	
2-Butanone (MEK)	10.50	10.86	103	
cis-1,2-Dichloroethene	10.50	11.82	113	
Hexane	10.70	11.96	112	
Chloroform	10.60	11.25	106	
Ethyl Acetate	10.60	11.19	106	
Tetrahydrofuran	10.60	12.29	116	
1,2-Dichloroethane	10.60	11.30	107	
1,1,1-Trichloroethane	10.50	10.92	104	
Benzene	10.60	11.74	111	
Carbon Tetrachloride	10.70	11.18	104	
Cyclohexane	10.50	11.64	111	

Analyte Compounds (Continued)	Source ¹	CCV ²	% Recovery ³
1,2-Dichloropropane	10.60	11.40	108
Bromodichloromethane	10.50	10.93	104
1,4-Dioxane	10.50	12.35	118
Trichloroethene (TCE)	10.50	11.16	106
2,2,4-Trimethylpentane	10.60	11.63	110
Methyl Methacrylate	10.60	11.58	109
Heptane	10.60	11.33	107
cis-1,3-Dichloropropene	10.20	11.20	110
4-Methyl-2-pentanone (MIBK)	10.20	11.04	108
trans-1,3-Dichloropropene	10.10	11.48	114
1,1,2-Trichloroethane	10.80	11.32	105
Toluene	10.80	11.97	111
2-Hexanone (MBK)	10.70	11.85	111
Dibromochloromethane	10.60	11.30	107
1,2-Dibromoethane	10.90	11.85	109
Tetrachloroethene (PCE)	10.50	10.95	104
Chlorobenzene	10.90	11.63	107
Ethylbenzene	10.90	12.81	118
m & p-Xylene	21.60	27.18	126
Bromoform	10.80	12.06	112
Styrene	10.70	13.20	123
1,1,2,2-Tetrachloroethane	10.70	12.03	112
o-Xylene	10.70	12.47	117
1,2,3-Trichloropropane	10.80	11.92	110
Isopropylbenzene (Cumene)	10.80	12.55	116
α-Pinene	11.60	13.65	118
2-Chlorotoluene	10.90	12.20	112
n-Propylbenzene	10.20	11.84	116
4-Ethyltoluene	10.60	12.53	118
1,3,5-Trimethylbenzene	10.50	12.33	117
β-Pinene	9.30	11.20	120
1,2,4-Trimethylbenzene	10.50	12.36	118
Benzyl Chloride (a-Chlorotoluene)	10.60	12.11	114
1,3-Dichlorobenzene	10.60	13.01	123
1,4-Dichlorobenzene	10.40	12.75	123
Sec-ButylBenzene	10.80	13.32	123
1,2-Dichlorobenzene	10.30	12.24	119
n-ButylBenzene	10.60	13.00	123
1,2-Dibromo-3-Chloropropane	10.70	12.72	119
1,2,4-Trichlorobenzene	10.50	11.43	109
Naphthalene	10.50	12.34	118
Hexachlorobutadiene	10.70	12.19	114

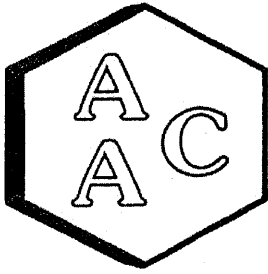
¹ Concentration of analyte compound in certified source standard.

² Measured result from daily Continuing Calibration Verification (CCV).

³ The acceptable range for analyte recovery is 100±30%.

HR - Recovery for this compound was high. Results should be considered biased high.





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 12/13/2021

MATRIX : High Purity N₂

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04

CALIBRATION STD ID : PS101121-02

ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

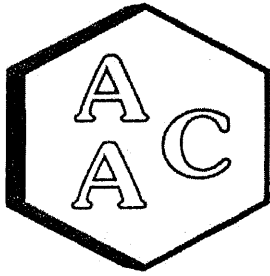
System Monitoring Compounds	Sample Concentration	Spike Added	LCS ¹ Recovery	LCSD ¹ Recovery	LCS ¹ % Recovery ²	LCSD ¹ % Recovery ²	RPD ³
4-BFB (surrogate standard)	0.0	10.00	10.50	10.44	105	104.4	0.6
1,1-Dichloroethene	0.0	10.70	12.05	11.87	113	111	1.5
Methylene Chloride (DCM)	0.0	10.90	11.56	11.34	106	104	1.9
Benzene	0.0	10.60	11.74	11.62	111	110	1.0
Trichloroethene (TCE)	0.0	10.50	11.16	11.15	106	106	0.1
Toluene	0.0	10.80	11.97	11.90	111	110	0.6
Tetrachloroethene (PCE)	0.0	10.50	10.95	10.95	104	104	0.0
Chlorobenzene	0.0	10.90	11.63	11.46	107	105	1.5
Ethylbenzene	0.0	10.90	12.81	12.83	118	118	0.2
m & p-Xylene	0.0	21.60	27.18	26.92	126	125	1.0
o-Xylene	0.0	10.70	12.47	12.33	117	115	1.1

¹ Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

² The acceptable range for analyte recovery is 100±30%.

³ Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

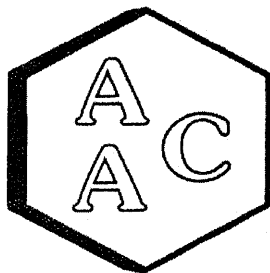
ANALYSIS DATE : 12/13/2021
 MATRIX : High Purity He or N₂
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15 Method Blank Analysis

Analyte Compounds	MB 121321	Reporting Limit (RL)	Analyte Compounds (Continued)	MB 121321	Reporting Limit (RL)
4-BFB (surrogate standard)	97%	100±30%	1,2-Dichloropropane	<RL	0.5
Chlorodifluoromethane	<RL	0.5	Bromodichloromethane	<RL	0.5
Propene	<RL	1.0	1,4-Dioxane	<RL	1.0
Dichlorodifluoromethane	<RL	0.5	Trichloroethene (TCE)	<RL	0.5
Dimethyl Ether	<RL	0.5	2,2,4-Trimethylpentane	<RL	0.5
Chloromethane	<RL	0.5	Methyl Methacrylate	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5	Heptane	<RL	0.5
Vinyl Chloride	<RL	0.5	cis-1,3-Dichloropropene	<RL	0.5
Acetaldehyde	<RL	5.0	4-Methyl-2-pentanone (MiBK)	<RL	0.5
Methanol	<RL	5.0	trans-1,3-Dichloropropene	<RL	0.5
1,3-Butadiene	<RL	0.5	1,1,2-Trichloroethane	<RL	0.5
Bromomethane	<RL	0.5	Toluene	<RL	0.5
Chloroethane	<RL	0.5	2-Hexanone (MBK)	<RL	1.0
Dichlorofluoromethane	<RL	0.5	Dibromochloromethane	<RL	0.5
Ethanol	<RL	2.0	1,2-Dibromoethane	<RL	0.5
Vinyl Bromide	<RL	0.5	Tetrachloroethene (PCE)	<RL	0.5
Acrolein	<RL	1.0	Chlorobenzene	<RL	0.5
Acetone	<RL	2.0	Ethylbenzene	<RL	0.5
Trichlorofluoromethane	<RL	0.5	m & p-Xylene	<RL	1.0
2-Propanol (IPA)	<RL	2.0	Bromoform	<RL	0.5
Acrylonitrile	<RL	2.0	Styrene	<RL	0.5
1,1-Dichloroethene	<RL	0.5	1,1,2,2-Tetrachloroethane	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0	o-Xylene	<RL	0.5
TertButanol (TBA)	<RL	0.5	1,2,3-Trichloropropane	<RL	0.5
Allyl Chloride	<RL	1.0	Isopropylbenzene (Cumene)	<RL	0.5
Carbon Disulfide	<RL	2.0	α-Pinene	<RL	0.5
Trichlorotrifluoroethane	<RL	0.5	2-Chlorotoluene	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5	n-Propylbenzene	<RL	0.5
1,1-Dichloroethane	<RL	0.5	4-Ethyltoluene	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5	1,3,5-Trimethylbenzene	<RL	0.5
Vinyl Acetate	<RL	1.0	β-Pinene	<RL	0.5
2-Butanone (MEK)	<RL	1.0	1,2,4-Trimethylbenzene	<RL	0.5
cis-1,2-Dichloroethene	<RL	0.5	Benzyl Chloride (α-Chlorotoluene)	<RL	1.0
Hexane	<RL	0.5	1,3-Dichlorobenzene	<RL	0.5
Chloroform	<RL	0.5	1,4-Dichlorobenzene	<RL	0.5
Ethyl Acetate	<RL	0.5	Sec-ButylBenzene	<RL	0.5
Tetrahydrofuran	<RL	0.5	1,2-Dichlorobenzene	<RL	0.5
1,2-Dichloroethane	<RL	0.5	n-ButylBenzene	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5	1,2-Dibromo-3-Chloropropane	<RL	0.5
Benzene	<RL	0.5	1,2,4-Trichlorobenzene	<RL	2.0
Carbon Tetrachloride	<RL	0.5	Naphthalene	<RL	1.0
Cyclohexane	<RL	0.5	Hexachlorobutadiene	<RL	0.5





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 12/13/2021

MATRIX : Air

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04

ANALYST : MB/RC

DILUTION FACTOR¹ : x19.94

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 212241-25954

Analyte Compounds	Sample	Duplicate	RPD ²
4-BFB (surrogate standard)	9.55	9.57	0.2
Chlorodifluoromethane	<SRL	<SRL	NA
Propene	<SRL	<SRL	NA
Dichlorodifluoromethane	<SRL	<SRL	NA
Dimethyl Ether	<SRL	<SRL	NA
Chloromethane	<SRL	<SRL	NA
Dichlorotetrafluoroethane	<SRL	<SRL	NA
Vinyl Chloride	<SRL	<SRL	NA
Acetaldehyde	<SRL	<SRL	NA
Methanol	<SRL	<SRL	NA
1,3-Butadiene	<SRL	<SRL	NA
Bromomethane	<SRL	<SRL	NA
Chloroethane	<SRL	<SRL	NA
Dichlorofluoromethane	<SRL	<SRL	NA
Ethanol	<SRL	<SRL	NA
Vinyl Bromide	<SRL	<SRL	NA
Acrolein	<SRL	<SRL	NA
Acetone	250	253	1.1
Trichlorofluoromethane	<SRL	<SRL	NA
2-Propanol (IPA)	<SRL	<SRL	NA
Acrylonitrile	<SRL	<SRL	NA
1,1-Dichloroethene	<SRL	<SRL	NA
Methylene Chloride (DCM)	<SRL	<SRL	NA
TertButanol (TBA)	<SRL	<SRL	NA
Allyl Chloride	<SRL	<SRL	NA
Carbon Disulfide	<SRL	<SRL	NA
Trichlorotrifluoroethane	<SRL	<SRL	NA
trans-1,2-Dichloroethene	<SRL	<SRL	NA
1,1-Dichloroethane	<SRL	<SRL	NA
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	NA
Vinyl Acetate	<SRL	<SRL	NA
2-Butanone (MEK)	<SRL	<SRL	NA
cis-1,2-Dichloroethene	<SRL	<SRL	NA
Hexane	<SRL	<SRL	NA
Chloroform	<SRL	<SRL	NA
Ethyl Acetate	<SRL	<SRL	NA
Tetrahydrofuran	<SRL	<SRL	NA
1,2-Dichloroethane	<SRL	<SRL	NA
1,1,1-Trichloroethane	<SRL	<SRL	NA
Benzene	<SRL	<SRL	NA
Carbon Tetrachloride	<SRL	<SRL	NA
Cyclohexane	<SRL	<SRL	NA

Analyte Compounds (Continued)	Sample	Duplicate	RPD ²
1,2-Dichloropropane	<SRL	<SRL	NA
Bromodichloromethane	<SRL	<SRL	NA
1,4-Dioxane	<SRL	<SRL	NA
Trichloroethene (TCE)	<SRL	<SRL	NA
2,2,4-Trimethylpentane	<SRL	<SRL	NA
Methyl Methacrylate	<SRL	<SRL	NA
Heptane	<SRL	<SRL	NA
cis-1,3-Dichloropropene	<SRL	<SRL	NA
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	NA
trans-1,3-Dichloropropene	<SRL	<SRL	NA
1,1,2-Trichloroethane	<SRL	<SRL	NA
Toluene	<SRL	<SRL	NA
2-Hexanone (MBK)	<SRL	<SRL	NA
Dibromochloromethane	<SRL	<SRL	NA
1,2-Dibromoethane	<SRL	<SRL	NA
Tetrachloroethene (PCE)	<SRL	<SRL	NA
Chlorobenzene	<SRL	<SRL	NA
Ethylbenzene	<SRL	<SRL	NA
m & p-Xylene	<SRL	<SRL	NA
Bromoform	<SRL	<SRL	NA
Styrene	<SRL	<SRL	NA
1,1,2,2-Tetrachloroethane	<SRL	<SRL	NA
o-Xylene	<SRL	<SRL	NA
1,2,3-Trichloropropane	<SRL	<SRL	NA
Isopropylbenzene (Cumene)	<SRL	<SRL	NA
α-Pinene	<SRL	<SRL	NA
2-Chlorotoluene	<SRL	<SRL	NA
n-Propylbenzene	<SRL	<SRL	NA
4-Ethyltoluene	<SRL	<SRL	NA
1,3,5-Trimethylbenzene	<SRL	<SRL	NA
β-Pinene	<SRL	<SRL	NA
1,2,4-Trimethylbenzene	<SRL	<SRL	NA
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	NA
1,3-Dichlorobenzene	<SRL	<SRL	NA
1,4-Dichlorobenzene	<SRL	<SRL	NA
Sec-ButylBenzene	<SRL	<SRL	NA
1,2-Dichlorobenzene	<SRL	<SRL	NA
n-ButylBenzene	<SRL	<SRL	NA
1,2-Dibromo-3-Chloropropane	<SRL	<SRL	NA
1,2,4-Trichlorobenzene	<SRL	<SRL	NA
Naphthalene	<SRL	<SRL	NA
Hexachlorobutadiene	<SRL	<SRL	NA

¹ Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

² Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)



212309



CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting · Phone: 805-650-1642 · Email: info@aaclab.com · 1534 Eastman Ave Suite A, Ventura, CA 93003					AAC Project No.:					
Client/Company Name <i>Freestone Environmental</i>		Project Name <i>DTC Recycle</i>			Analysis Requested <i>Speciated Soil for Compounds</i> <i>VOCs + TICs</i>			Send Report To (Name/Email/Address) <i>Kira Murray</i> <i>kiramurray@getfreestone.com</i>		
Project Manager Name <i>Kira Murray</i>		Project Number						Send Invoice To (Name/Email/Address) <i>Kira Murray</i> <i>kiramurray@getfreestone.com</i>		
Turnaround Time <input type="checkbox"/> Rush 24 h <input type="checkbox"/> Same Day <input type="checkbox"/> Rush 48 h <input type="checkbox"/> 5 Days <input type="checkbox"/> Rush 72 h <input checked="" type="checkbox"/> Normal		Sampler Name Print: <i>Tracy Mallgren</i> Signature:			1100 Judwin Ave, Suite 250 Richland, WA		Send Invoice To (Name/Email/Address) <i>Kira Murray</i> <i>kiramurray@getfreestone.com</i>		1100 Judwin Ave, Suite 250 Richland, WA	
							LAB USE ONLY			
Client Sample Name		Sample ID	Sampling Date	Sampling Time	Container Type/Qty			Lab ID	Sample Received via: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Other _____	
<i>Sample A-1</i>		<i>A-1</i>	<i>12/8/21</i>	<i>1336</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26290</i>		
<i>Sample A-1 backup</i>		<i>A-1 backup</i>	<i>12/8/21</i>	<i>1342</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26291</i>		
<i>Sample A-2</i>		<i>A-2</i>	<i>12/8/21</i>	<i>1355</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26292</i>		
<i>Sample A-2 backup</i>		<i>A-2 backup</i>	<i>12/8/21</i>	<i>1358</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26293</i>		
<i>Sample A-3</i>		<i>A-3</i>	<i>12/8/21</i>	<i>1425</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26294</i>		
<i>Sample A-3 backup</i>		<i>A-3 backup</i>	<i>12/8/21</i>	<i>1428</i>	<i>Tedlar 1</i>	<i>X</i>	<i>X</i>	<i>26295</i>		
<i>Not Used</i>		<i>TM 12/8/21</i>			<i>Not Used</i>		<i>TM 12/8/21</i>			
Client Notes/Special Instructions: <i>Only run backup samples if there is a leak/problem with original sample</i>						EDD? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LAB USE ONLY Notes:		
Relinquished By Print: <i>Tracy Mallgren</i> Signature:		Date <i>12/8/21</i> Time <i>1500</i>	Received By Print: Signature:			Date				
Relinquished By Print: Signature:		Date Time	Received By Print: Signature: <i>Chad A. Nelson</i>			Date <i>12/9/21</i> Time <i>0722</i>				

ups

212309



CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting - Phone: 805-650-1642 - Email: info@aaclab.com - 1534 Eastman Ave Suite A, Ventura, CA 93003					AAC Project No.:				
Client/Company Name Freestone Environmental Project Manager Name Kira Murray		Project Name DTG Recycle Project Number			Analysis Requested Speciated Sol for Compounds VOCs + TICs			Send Report To (Name/Email/Address) Kira Murray kiramurray@gofreestone.com 1100 Jodwin Ave, Suite 250 Richland, WA	
Turnaround Time <input type="checkbox"/> Rush 24 h <input type="checkbox"/> Same Day <input type="checkbox"/> Rush 48 h <input type="checkbox"/> 5 Days <input type="checkbox"/> Rush 72 h <input checked="" type="checkbox"/> Normal		Sampler Name Print: Tracy Mallgren Signature:						Send Invoice To (Name/Email/Address) Kira Murray kiramurray@gofreestone.com 1100 Jodwin Ave, Suite 250 PO Number Richland, WA	
Client Sample Name		Sample ID	Sampling Date	Sampling Time	Container Type/Qty	LAB USE ONLY Lab ID Sample Received via: <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Other _____ Temperature _____ °C Thermometer ID _____ Initials _____ Returned Eqmt Total cans: _____ Unused cans: _____ Flow Controllers: _____			
Sample A-1		A-1	12/8/21	1336	Tedlar 1				
Sample A-1 backup		A-1 backup	12/8/21	1342	Tedlar 1	X	X	26290	
Sample A-2		A-2	12/8/21	1355	Tedlar 1	X	X	26291	
Sample A-2 backup		A-2 backup	12/8/21	1358	Tedlar 1	X	X	26292	
Sample A-3		A-3	12/8/21	1425	Tedlar 1	X	X	26293	
Sample A-3 backup		A-3 backup	12/8/21	1428	Tedlar 1	X	X	26294	
Not Used TM 12/8/21									
Not Used TM 12/8/21									
Client Notes/Special Instructions:						EDD?		LAB USE ONLY	
Only run backup samples if there is a leak/problem with original sample						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Notes:	
Relinquished By		Date	Received By			Date			
Print: Tracy Mallgren		12/8/21	Print:			Date			
Signature:		Time 1500	Signature:			Time			
Relinquished By		Date	Received By			Date			
Print:			Print:			Date 12/9/21			
Signature:			Signature:			Time 0722			

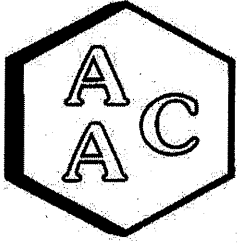
AIR SAMPLING REPORT

DTG Recycling Group

APPENDIX C

DECEMBER SOIL GAS SAMPLING

**ANALYTICAL LABORATORY REPORT FOR METHOD
ASTM D5504 - TOTAL REDUCED SULFUR**



Atmospheric Analysis & Consulting, Inc.

CLIENT : Freestone Environmental
PROJECT NAME : DTG Recycle
AAC PROJECT NO. : 212309
REPORT DATE : 12/20/2021

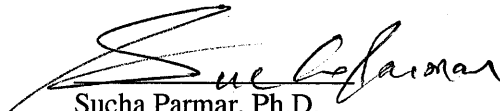
On December 9, 2021, Atmospheric Analysis & Consulting, Inc. received six (6) Tedlar Bags for Total Reduced Sulfur analysis by ASTM D-5504. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab No.
Sample A-1	212309-26290
Sample A-1 backup	212309-26291
Sample A-2	212309-26292
Sample A-2 backup	212309-26293
Sample A-3	212309-26294
Sample A-3 backup	212309-26295

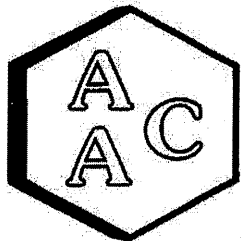
This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Per client request, the samples labeled "backup" (26291, 26293, 26295) were placed on hold and not analyzed. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.


Sucha Parmar, Ph.D.
Technical Director

This report consists of 4 pages.



Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

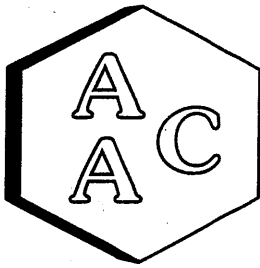
CLIENT : Freestone Environmental
PROJECT NO. : 212309
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 12/08/2021
RECEIVING DATE : 12/09/2021
ANALYSIS DATE : 12/09/2021
REPORT DATE : 12/20/2021

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	Sample A-1	Sample A-2	Sample A-3
AAC ID	212309-26290	212309-26292	212309-26294
Analyte	Result	Result	Result
Hydrogen Sulfide	12.4	0.490	< 0.050
COS / SO ₂	0.472	0.055	0.137
Methyl Mercaptan	11.9	1.75	< 0.050
Ethyl Mercaptan	0.091	< 0.050	< 0.050
Dimethyl Sulfide	18.3	6.34	< 0.050
Carbon Disulfide	0.141	< 0.050	< 0.050
Isopropyl Mercaptan	< 0.050	< 0.050	< 0.050
tert-Butyl Mercaptan	< 0.050	< 0.050	< 0.050
n-Propyl Mercaptan	< 0.050	< 0.050	< 0.050
Methylethylsulfide	< 0.050	< 0.050	< 0.050
sec-Butyl Mercaptan / Thiophene	1.08	0.329	< 0.050
iso-Butyl Mercaptan	< 0.050	< 0.050	< 0.050
Diethyl Sulfide	< 0.050	< 0.050	< 0.050
n-Butyl Mercaptan	< 0.050	< 0.050	< 0.050
Dimethyl Disulfide	0.386	0.319	< 0.050
2-Methylthiophene	0.606	0.211	< 0.050
3-Methylthiophene	0.355	0.112	< 0.050
Tetrahydrothiophene	0.406	0.109	< 0.050
Bromothiophene	< 0.050	< 0.050	< 0.050
Thiophenol	< 0.050	< 0.050	< 0.050
Diethyl Disulfide	< 0.050	< 0.050	< 0.050
Total Unidentified Sulfur	1.54	0.435	< 0.050
Total Reduced Sulfurs	47.2	10.1	< 0.050

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
 Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.



Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 12/9/2021
 Analyst: DL
 Units: ppbV

Instrument ID: SCD#10
 Calb. Date: 12/8/2021

Opening Calibration Verification Standard

519.8 ppbV H₂S (SS1289)

H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	2963	520	100.0	0.5
Duplicate	3006	527	101.4	1.9
Triplicate	2880	505	97.2	2.4

527.0 ppbV H₂S (SS1289)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	3519	532	101.0	0.3
Duplicate	3542	536	101.7	1.0
Triplicate	3462	524	99.4	1.3

522.0 ppbV H₂S (SS1289)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	3958	525	100.6	1.3
Duplicate	3887	516	98.8	0.5
Triplicate	3877	514	98.5	0.8

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis

Sample ID 212124-25443

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate

Sample ID 212124-25443 x10

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	<PQL	259.9	261.9	263.0	100.8	101.2	0.4
MeSH	<PQL	263.5	261.2	264.5	99.1	100.4	1.3
DMS	<PQL	261.0	265.1	264.9	101.6	101.5	0.1

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H ₂ S	519.8	500.2	96.2
MeSH	527.0	516.5	98.0
DMS	522.0	520.1	99.6

* Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.

H₂S: PQL = 10.5 ppbV, MDL = 1.12 ppbV

MeSH: PQL = 10.5 ppbV, MDL = 1.12 ppbV

DMS: PQL = 11.0 ppbV, MDL = 1.12 ppbV



212309



CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting • Phone: 805-650-1642 • Email: info@aaclab.com • 1534 Eastman Ave Suite A, Ventura, CA 93003

Client/Company Name Freestone Environmental Project Manager Name Kira Murray		Project Name DTC Recycle Project Number			Analysis Requested Speciated Solfor Compounds VOCs + TICs			AAC Project No.: Send Report To (Name/Email/Address) Kira Murray Kiramurray@gofreestone.com 1100 Judwin Ave, Suite 250 Richland, WA	
Turnaround Time <input type="checkbox"/> Rush 24 h <input type="checkbox"/> Same Day <input type="checkbox"/> Rush 48 h <input type="checkbox"/> 5 Days <input type="checkbox"/> Rush 72 h <input checked="" type="checkbox"/> Normal		Sampler Name Print: Tracy Mallgren Signature: <i>[Signature]</i>						Send Invoice To (Name/Email/Address) Kiramurray@gofreestone.com 1100 Judwin Ave, Suite 250 PO Number Richland, WA	
Client Sample Name		Sample ID	Sampling Date	Sampling Time	Container Type/Qty				
Sample A-1		A-1	12/8/21	1336	Tedlar 1	X	X	26290	
Sample A-1 backup		A-1 backup	12/8/21	1342	Tedlar 1	X	X	26291	
Sample A-2		A-2	12/8/21	1355	Tedlar 1	X	X	26292	
Sample A-2 backup		A-2 backup	12/8/21	1358	Tedlar 1	X	X	26293	
Sample A-3		A-3	12/8/21	1425	Tedlar 1	X	X	26294	
Sample A-3 backup		A-3 backup	12/8/21	1428	Tedlar 1	X	X	26295	
Not Used TM 12/8/21									
Not Used TM 12/8/21									
Client Notes/Special Instructions: Only run backup samples if there is a leak/problem with original sample						EDD? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	LAB USE ONLY Notes:		
Relinquished By Print: Tracy Mallgren Signature: <i>[Signature]</i>		Date 12/8/21 Time 1500	Received By Print: Signature: <i>[Signature]</i>			Date			
Relinquished By Print: Signature:		Date Time	Received By Print: Signature: <i>[Signature]</i>			Date 12/9/21			
			Signature: <i>[Signature]</i>			Time 0722			

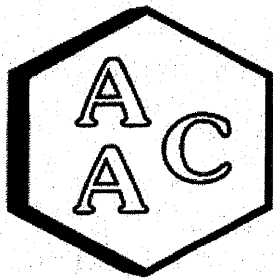
Ups

AIR SAMPLING REPORT

DTG Recycling Group

APPENDIX D

**JANUARY AMBIENT AIR SAMPLING
ANALYTICAL LABORATORY REPORT FOR EPA
METHOD TO-15 – VOLATILE ORGANIC
COMPOUNDS AND TENTATIVELY IDENTIFIED
COMPOUNDS**



Atmospheric Analysis & Consulting, Inc

CLIENT : Freestone Environmental
PROJECT NAME : DTG
AAC PROJECT NO. : 220168
REPORT DATE : 1/31/2022

On January 26, 2022, Atmospheric Analysis & Consulting, Inc. received eight (8) Six-Liter Summa Canisters for Volatile Organic Compounds and TICs analysis by EPA Method TO-15. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

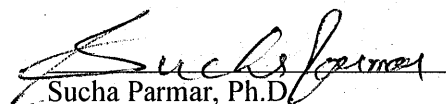
Client ID	Lab ID	Return Pressure (mmHga)
S-1 Vent	220168-27344	701.0
S-2 5' from vent	220168-27345	623.0
S-3 15' from vent	220168-27346	694.5
S-4 Upwind	220168-27347	558.5
S-5 Boundary	220168-27348	546.5
S-6 Boundary	220168-27349	745.5
S-7 Boundary	220168-27350	634.0
S-8 Boundary	220168-27351	542.0

This analysis is accredited under the laboratory's ISO/IEC 17025:2017 accreditation issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1908. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Methanol was biased low as reflected in the daily CCV report; however, a low level standard was run to confirm the visibility this compound. No other problems were encountered during receiving, preparation, and/or analysis of these samples.

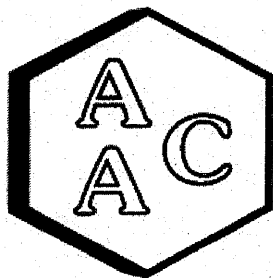
The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

If you have any questions or require further explanation of data results, please contact the undersigned.


Sucha Parmar, Ph.D.
Technical Director

This report consists of 19 pages.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

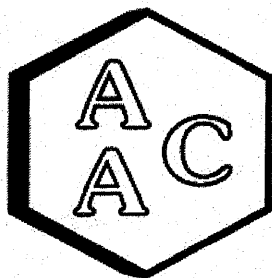
CLIENT : Freestone Environmental
PROJECT NO : 220168
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
DATE REPORTED : 01/31/2022
ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	S-1 Vent			Sample Reporting Limit (SRL)	S-2 5' from vent			Sample Reporting Limit (SRL)	Method Reporting Limit (MRL)
	AAC ID	220168-27344			220168-27345				
Date Sampled	01/21/2022				01/21/2022				
Date Analyzed	01/27/2022				01/27/2022				
Can Dilution Factor	1.48				1.70				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	
Chlorodifluoromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Propene	23.6		1	1.48	18.0		1	1.70	1.00
Dichlorodifluoromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Chloromethane	12.7		1	0.74	10.1		1	0.85	0.50
Dichlorotetrafluoroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Vinyl Chloride	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Methanol	<SRL	U	1	7.41	<SRL	U	1	8.50	5.00
1,3-Butadiene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Bromomethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Chloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Dichlorofluoromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Ethanol	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
Vinyl Bromide	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Acetone	3.64		1	2.96	3.76		1	3.40	2.00
Trichlorofluoromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
2-Propanol (IPA)	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
Acrylonitrile	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
1,1-Dichloroethene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Methylene Chloride (DCM)	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
Allyl Chloride	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
Carbon Disulfide	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
Trichlorotrifluoroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
trans-1,2-Dichloroethene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,1-Dichloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
Vinyl Acetate	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
2-Butanone (MEK)	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
cis-1,2-Dichloroethene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Hexane	1.96		1	0.74	1.84		1	0.85	0.50
Chloroform	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Ethyl Acetate	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Tetrahydrofuran	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,2-Dichloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,1,1-Trichloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Benzene	13.3		1	0.74	13.0		1	0.85	0.50





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

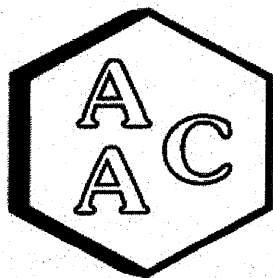
DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	S-1 Vent			Sample Reporting Limit (SRL) (MRLxDF's)	S-2 5' from vent			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
	AAC ID	Result	Qualifier		AAC ID	Result	Qualifier		
	220168-27344				220168-27345				
Date Sampled	01/21/2022				01/21/2022				
Date Analyzed	01/27/2022				01/27/2022				
Can Dilution Factor	1.48				1.70				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	(MRL)
Carbon Tetrachloride	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Cyclohexane	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
1,2-Dichloropropane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Bromodichloromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,4-Dioxane	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
Trichloroethene (TCE)	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
2,2,4-Trimethylpentane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Heptane	1.16			0.74	<SRL	U	1	0.85	0.50
cis-1,3-Dichloropropene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
4-Methyl-2-pentanone (MiBK)	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
trans-1,3-Dichloropropene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
1,1,2-Trichloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Toluene	4.49			0.74	3.98			0.85	0.50
2-Hexanone (MBK)	<SRL	U	1	7.41	<SRL	U	1	8.50	5.00
Dibromochloromethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,2-Dibromoethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Tetrachloroethene (PCE)	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Chlorobenzene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Ethylbenzene	1.85			1.48	1.99			1.70	1.00
m & p-Xylene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
Bromoform	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
Styrene	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
o-Xylene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
4-Ethyltoluene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
1,3,5-Trimethylbenzene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
1,2,4-Trimethylbenzene	<SRL	U	1	1.48	<SRL	U	1	1.70	1.00
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	2.96	<SRL	U	1	3.40	2.00
1,3-Dichlorobenzene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,4-Dichlorobenzene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,2-Dichlorobenzene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
1,2,4-Trichlorobenzene	<SRL	U	1	7.41	<SRL	U	1	8.50	5.00
Hexachlorobutadiene	<SRL	U	1	0.74	<SRL	U	1	0.85	0.50
IBFB-Surrogate Std. % Recovery		90%				96%			70-130%

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

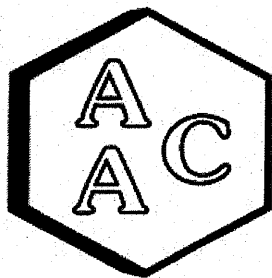
CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	S-3 15' from vent 220168-27346			Sample Reporting Limit (SRL)	S-4 Upwind 220168-27347			Sample Reporting Limit (SRL)	Method Reporting Limit (MRL)
	Date Sampled	Date Analyzed	Can Dilution Factor		Date Sampled	Date Analyzed	Can Dilution Factor		
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	(MRL)
Chlorodifluoromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Propene	35.6		1	1.50	<SRL	U	1	1.87	1.00
Dichlorodifluoromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Chloromethane	17.7		1	0.75	<SRL	U	1	0.94	0.50
Dichlorotetrafluoroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Vinyl Chloride	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Methanol	28.8		1	7.51	<SRL	U	1	9.36	5.00
1,3-Butadiene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Bromomethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Chloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Dichlorofluoromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Ethanol	7.46		1	3.00	<SRL	U	1	3.74	2.00
Vinyl Bromide	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Acetone	10.9		1	3.00	<SRL	U	1	3.74	2.00
Trichlorofluoromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
2-Propanol (IPA)	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
Acrylonitrile	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
1,1-Dichloroethene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Methylene Chloride (DCM)	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
Allvl Chloride	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
Carbon Disulfide	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
Trichlorotrifluoroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
trans-1,2-Dichloroethene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,1-Dichloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
Vinyl Acetate	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
2-Butanone (MEK)	1.95		1	1.50	<SRL	U	1	1.87	1.00
cis-1,2-Dichloroethene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Hexane	4.02		1	0.75	<SRL	U	1	0.94	0.50
Chloroform	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Ethyl Acetate	2.69		1	0.75	<SRL	U	1	0.94	0.50
Tetrahydrofuran	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,2-Dichloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,1,1-Trichloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Benzene	26.8		1	0.75	<SRL	U	1	0.94	0.50





Atmospheric Analysis & Consulting, Inc

Laboratory Analysis Report

CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

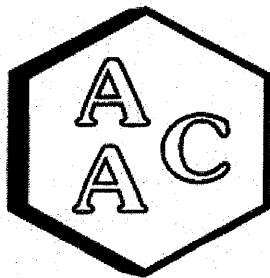
DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID AAC ID	S-3 15' from vent 220168-27346			Sample Reporting Limit (SRL) (MRLxDF's)	S-4 Upwind 220168-27347			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
	Date Sampled	Date Analyzed	Can Dilution Factor		Date Sampled	Date Analyzed	Can Dilution Factor		
Compound	Result	Qualifier	Analysis DF	Result	Qualifier	Analysis DF	Result	Qualifier	Analysis DF
Carbon Tetrachloride	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Cyclohexane	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
1,2-Dichloropropane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Bromodichloromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,4-Dioxane	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
Trichloroethene (TCE)	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
2,2,4-Trimethylpentane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Heptane	3.05			0.75	<SRL	U	1	0.94	0.50
cis-1,3-Dichloropropene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
4-Methyl-2-pentanone (MIBK)	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
trans-1,3-Dichloropropene	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
1,1,2-Trichloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Toluene	23.8			0.75	<SRL	U	1	0.94	0.50
2-Hexanone (MBK)	<SRL	U	1	7.51	<SRL	U	1	9.36	5.00
Dibromochloromethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,2-Dibromoethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Tetrachloroethene (PCE)	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Chlorobenzene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Ethylbenzene	5.82			1.50	<SRL	U	1	1.87	1.00
m & p-Xylene	1.91			1.50	<SRL	U	1	1.87	1.00
Bromoform	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
Styrene	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
o-Xylene	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
4-Ethyltoluene	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
1,3,5-Trimethylbenzene	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
1,2,4-Trimethylbenzene	<SRL	U	1	1.50	<SRL	U	1	1.87	1.00
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	3.00	<SRL	U	1	3.74	2.00
1,3-Dichlorobenzene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,4-Dichlorobenzene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,2-Dichlorobenzene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
1,2,4-Trichlorobenzene	<SRL	U	1	7.51	<SRL	U	1	9.36	5.00
Hexachlorobutadiene	<SRL	U	1	0.75	<SRL	U	1	0.94	0.50
BFB-Surrogate Std. % Recovery		99%				94%			70-130%

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc

Laboratory Analysis Report

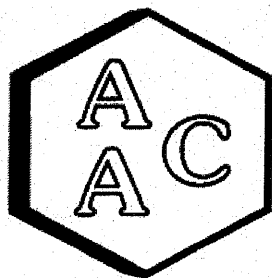
CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		S-5 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	S-6 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		220168-27348				220168-27349				
Date Sampled		01/21/2022				01/21/2022				
Date Analyzed		01/27/2022				01/27/2022				
Can Dilution Factor		1.92			1.40					
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF			
Chlorodifluoromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Propene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00	
Dichlorodifluoromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Chloromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Dichlorotetrafluoroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Vinyl Chloride	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Methanol	<SRL	U	1	9.62	<SRL	U	1	6.98	5.00	
1,3-Butadiene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Bromomethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Chloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Dichlorofluoromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Ethanol	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00	
Vinyl Bromide	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Acetone	<SRL	U	1	3.85	3.57		1	2.79	2.00	
Trichlorofluoromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
2-Propanol (IPA)	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00	
Acrylonitrile	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00	
1,1-Dichloroethene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Methylene Chloride (DCM)	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00	
Allyl Chloride	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00	
Carbon Disulfide	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00	
Trichlorotrifluoroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
trans-1,2-Dichloroethene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
1,1-Dichloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00	
Vinyl Acetate	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00	
2-Butanone (MEK)	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00	
cis-1,2-Dichloroethene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Hexane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Chloroform	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Ethyl Acetate	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Tetrahydrofuran	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
1,2-Dichloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
1,1,1-Trichloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	
Benzene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50	





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

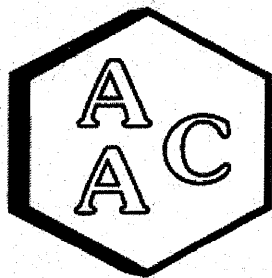
DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	S-5 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	S-6 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
	AAC ID	Result	Qualifier		Analysis DF	Result	Qualifier		
	220168-27348				220168-27349				
Date Sampled	01/21/2022				01/21/2022				
Date Analyzed	01/27/2022				01/27/2022				
Can Dilution Factor	1.92				1.40				
Compound	Result	Qualifier	Analysis DF	(MRLxDF's)	Result	Qualifier	Analysis DF	(MRLxDF's)	(MRL)
Carbon Tetrachloride	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Cyclohexane	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
1,2-Dichloropropane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Bromodichloromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
1,4-Dioxane	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
Trichloroethene (TCE)	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
2,2,4-Trimethylpentane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Heptane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
cis-1,3-Dichloropropene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
4-Methyl-2-pentanone (MiBK)	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00
trans-1,3-Dichloropropene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
1,1,2-Trichloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Toluene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
2-Hexanone (MBK)	<SRL	U	1	9.62	<SRL	U	1	6.98	5.00
Dibromochloromethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
1,2-Dibromoethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Tetrachloroethene (PCE)	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Chlorobenzene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Ethylbenzene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
m & p-Xylene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
Bromoform	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
Styrene	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
o-Xylene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
4-Ethyltoluene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
1,3,5-Trimethylbenzene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
1,2,4-Trimethylbenzene	<SRL	U	1	1.92	<SRL	U	1	1.40	1.00
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	3.85	<SRL	U	1	2.79	2.00
1,3-Dichlorobenzene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
1,4-Dichlorobenzene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
1,2-Dichlorobenzene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
1,2,4-Trichlorobenzene	<SRL	U	1	9.62	<SRL	U	1	6.98	5.00
Hexachlorobutadiene	<SRL	U	1	0.96	<SRL	U	1	0.70	0.50
BFB-Surrogate Std. % Recovery		94%				89%			70-130%

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

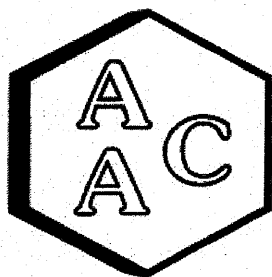
CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		S-7 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	S-8 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		220168-27350				220168-27351				
Date Sampled		01/21/2022				01/21/2022				
Date Analyzed		01/27/2022				01/27/2022				
Can Dilution Factor		1.61			1.91					
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF			
Chlorodifluoromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Propene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Dichlorodifluoromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Chloromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Dichlorotetrafluoroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Vinyl Chloride	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Methanol	9.46		1	8.06	<SRL	U	1	9.54	5.00	
1,3-Butadiene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Bromomethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Chloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Dichlorofluoromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Ethanol	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
Vinyl Bromide	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Acetone	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
Trichlorofluoromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
2-Propanol (IPA)	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
Acrylonitrile	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
1,1-Dichloroethene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Methylene Chloride (DCM)	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Allyl Chloride	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Carbon Disulfide	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
Trichlorotrifluoroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
trans-1,2-Dichloroethene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,1-Dichloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Methyl Tert Butyl Ether (MTBE)	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
Vinyl Acetate	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
2-Butanone (MEK)	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
cis-1,2-Dichloroethene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Hexane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Chloroform	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Ethyl Acetate	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Tetrahydrofuran	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,2-Dichloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,1,1-Trichloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Benzene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
 PROJECT NO : 220168
 MATRIX : AIR
 UNITS : PPB (v/v)

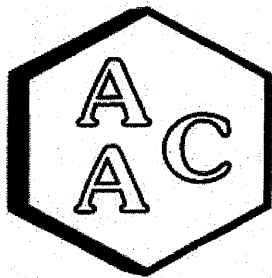
DATE RECEIVED : 01/26/2022
 DATE REPORTED : 01/31/2022
 ANALYST : MB/RC

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID		S-7 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	S-8 Boundary			Sample Reporting Limit (SRL) (MRLxDF's)	Method Reporting Limit (MRL)
AAC ID		220168-27350				220168-27351				
Date Sampled		01/21/2022				01/21/2022				
Date Analyzed		01/27/2022				01/27/2022				
Can Dilution Factor		1.61			1.91					
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF			
Carbon Tetrachloride	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Cyclohexane	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
1,2-Dichloropropane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Bromodichloromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,4-Dioxane	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Trichloroethene (TCE)	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
2,2,4-Trimethylpentane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Heptane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
cis-1,3-Dichloropropene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
4-Methyl-2-pentanone (MIBK)	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
trans-1,3-Dichloropropene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
1,1,2-Trichloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Toluene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
2-Hexanone (MBK)	<SRL	U	1	8.06	<SRL	U	1	9.54	5.00	
Dibromochloromethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,2-Dibromoethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Tetrachloroethene (PCE)	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Chlorobenzene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Ethylbenzene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
m & p-Xylene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Bromoform	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
Styrene	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
1,1,2,2-Tetrachloroethane	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
o-Xylene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
4-Ethyltoluene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
1,3,5-Trimethylbenzene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
1,2,4-Trimethylbenzene	<SRL	U	1	1.61	<SRL	U	1	1.91	1.00	
Benzyl Chloride (a-Chlorotoluene)	<SRL	U	1	3.22	<SRL	U	1	3.82	2.00	
1,3-Dichlorobenzene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,4-Dichlorobenzene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,2-Dichlorobenzene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
1,2,4-Trichlorobenzene	<SRL	U	1	8.06	<SRL	U	1	9.54	5.00	
Hexachlorobutadiene	<SRL	U	1	0.81	<SRL	U	1	0.95	0.50	
BFB-Surrogate Std. % Recovery		99%				93%			70-130%	

U - Compound was not detected at or above the SRL.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 220168
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
DATE REPORTED : 01/31/2022
ANALYST : MB/RC

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

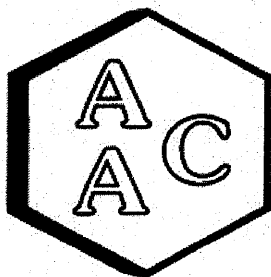
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<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.48	
<i>Compound</i>	Result*	Analysis DF	ID Quality [§]
2-Methyl-1-propene	4.86	1	74
Butane	3.54	1	42
2-Methylbutane	4.65	1	64
BFB-Surrogate Std. % Recovery	90%		

<i>Client ID</i>		S-2 5' from vent	
<i>AAC ID</i>		220168-27345	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.70	
<i>Compound</i>	Result*	Analysis DF	ID Quality [§]
2-Methyl-1-propene	4.88	1	81
Butane	3.86	1	53
2-Butene	1.87	1	72
Pentane	3.96	1	47
2-Methyl-2-butene	1.89	1	59
BFB-Surrogate Std. % Recovery	96%		

* Results obtained via TICs analysis are estimated.

§ Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 220168
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
DATE REPORTED : 01/31/2022
ANALYST : MB/RC

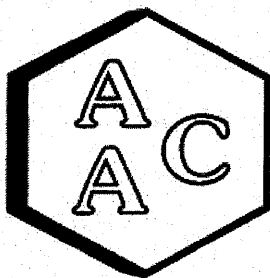
TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

<i>Client ID</i>		S-3 15' from vent	
<i>AAC ID</i>		220168-27346	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.50	
<i>Compound</i>	<i>Result*</i>	<i>Analysis DF</i>	<i>ID Quality</i> [§]
2-Methyl-1-propene	7.37	1	86
Butane	6.81	1	58
Pentane	9.07	1	72
2-Methyl-2-butene	3.12	1	83
2-Methylfuran	2.51	1	90
Octane	1.73	1	64
Hexamethylcyclotrisiloxane	5.04	1	64
2,2,6-Trimethyloctane	4.07	1	64
Decane	1.70	1	72
1-Methyl-4-(1-methylethyl)-benzene	8.02	1	97
BFB-Surrogate Std. % Recovery	99%		

<i>Client ID</i>		S-4 Upwind	
<i>AAC ID</i>		220168-27347	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.87	
<i>Compound</i>	<i>Result*</i>	<i>Analysis DF</i>	<i>ID Quality</i> [§]
No Library Search Compounds Detected			
BFB-Surrogate Std. % Recovery	94%		

* Results obtained via TICs analysis are estimated.
 § Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 220168
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
DATE REPORTED : 01/31/2022
ANALYST : MB/RC

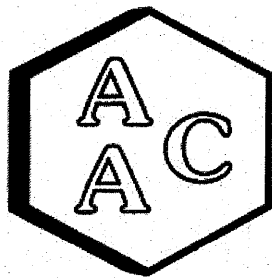
TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

<i>Client ID</i>		S-5 Boundary	
<i>AAC ID</i>		220168-27348	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.92	
<i>Compound</i>	Result*	Analysis DF	ID Quality[§]
2-Methylbutane	4.37	1	64
BFB-Surrogate Std. % Recovery		94%	

<i>Client ID</i>		S-6 Boundary	
<i>AAC ID</i>		220168-27349	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.40	
<i>Compound</i>	Result*	Analysis DF	ID Quality[§]
Propane	1.74	1	9
BFB-Surrogate Std. % Recovery		89%	

* Results obtained via TICs analysis are estimated.
 § Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc

Laboratory Analysis Report

CLIENT : Freestone Environmental
PROJECT NO : 220168
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 01/26/2022
DATE REPORTED : 01/31/2022
ANALYST : MB/RC

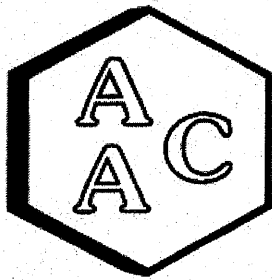
TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

<i>Client ID</i>		S-7 Boundary	
<i>AAC ID</i>		220168-27350	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.61	
<i>Compound</i>	Result*	Analysis DF	ID Quality[§]
No Library Search Compounds Detected			
BFB-Surrogate Std. % Recovery	99%		

<i>Client ID</i>		S-8 Boundary	
<i>AAC ID</i>		220168-27351	
<i>Date Sampled</i>		01/21/2022	
<i>Date Analyzed</i>		01/27/2022	
<i>Can Dilution Factor</i>		1.91	
<i>Compound</i>	Result*	Analysis DF	ID Quality[§]
No Library Search Compounds Detected			
BFB-Surrogate Std. % Recovery	93%		

* Results obtained via TICs analysis are estimated.
 § Spectral Library match quality ranges from 1-100.





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 01/27/2022
 MATRIX : High Purity N₂
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02
 CALIBRATION STD ID : MSI-010522-01
 ANALYST : RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 01/07/2022 Calibration

Analyte Compounds	Source ¹	CCV ²	% Recovery ³
4-BFB (surrogate standard)	10.00	10.17	102
Chlorodifluoromethane	10.50	10.00	95
Propene	10.60	9.19	87
Dichlorodifluoromethane	10.40	9.14	88
Dimethyl Ether	10.80	8.54	79
Chloromethane	10.40	7.51	72
Dichlorotetrafluoroethane	10.30	8.99	87
Vinyl Chloride	10.50	8.48	81
Acetaldehyde	22.50	17.99	80
Methanol	LR 20.10	12.17	61
1,3-Butadiene	10.60	8.53	80
Bromomethane	10.40	8.04	77
Chloroethane	10.30	7.70	75
Dichlorofluoromethane	10.50	8.19	78
Ethanol	11.20	8.10	72
Vinyl Bromide	10.50	8.42	80
Acrolein	LR 11.10	7.53	68
Acetone	10.60	7.82	74
Trichlorofluoromethane	10.50	7.87	75
2-Propanol (IPA)	11.00	8.02	73
Acrylonitrile	11.40	8.49	74
1,1-Dichloroethene	10.40	8.56	82
Methylene Chloride (DCM)	10.50	8.40	80
TertButanol (TBA)	11.30	8.23	73
Allyl Chloride	10.40	8.41	81
Carbon Disulfide	10.50	7.88	75
Trichlorotrifluoroethane	10.40	8.21	79
trans-1,2-Dichloroethene	10.60	10.97	103
1,1-Dichloroethane	10.50	9.81	93
Methyl Tert Butyl Ether (MTBE)	10.50	8.53	81
Vinyl Acetate	11.00	9.86	90
2-Butanone (MEK)	10.60	9.27	87
cis-1,2-Dichloroethene	10.50	10.54	100
Hexane	10.70	10.20	95
Chloroform	10.60	10.23	97
Ethyl Acetate	10.60	9.92	94
Tetrahydrofuran	10.20	8.90	87
1,2-Dichloroethane	10.50	9.91	94
1,1,1-Trichloroethane	10.40	9.98	96
Benzene	10.60	10.70	101
Carbon Tetrachloride	10.20	10.34	101
Cyclohexane	10.50	10.98	105

Analyte Compounds (Continued)	Source ¹	CCV ²	% Recovery ³
1,2-Dichloropropane	10.50	9.41	90
Bromodichloromethane	10.40	9.81	94
1,4-Dioxane	10.40	11.22	108
Trichloroethene (TCE)	10.40	11.53	111
2,2,4-Trimethylpentane	10.40	11.15	107
Methyl Methacrylate	11.00	9.63	88
Heptane	10.50	11.17	106
cis-1,3-Dichloropropene	10.40	10.85	104
4-Methyl-2-pentanone (MiBK)	10.40	9.62	93
trans-1,3-Dichloropropene	10.50	9.17	87
1,1,2-Trichloroethane	10.50	10.72	102
Toluene	10.60	11.88	112
2-Hexanone (MBK)	10.50	8.77	84
Dibromochloromethane	10.30	10.53	102
1,2-Dibromoethane	10.60	10.59	100
Tetrachloroethene (PCE)	10.40	11.05	106
Chlorobenzene	10.60	10.92	103
Ethylbenzene	10.50	11.43	109
m & p-Xylene	21.00	22.27	106
Bromoform	10.50	10.61	101
Styrene	10.50	10.38	99
1,1,2,2-Tetrachloroethane	10.50	10.80	103
o-Xylene	10.50	10.90	104
1,2,3-Trichloropropane	10.40	10.72	103
Isopropylbenzene (Cumene)	10.40	11.69	112
α-Pinene	11.40	10.14	89
2-Chlorotoluene	10.40	11.86	114
n-Propylbenzene	10.50	12.09	115
4-Ethyltoluene	10.30	10.79	105
1,3,5-Trimethylbenzene	10.30	10.47	102
β-Pinene	11.30	8.00	71
1,2,4-Trimethylbenzene	10.30	10.53	102
Benzyl Chloride (a-Chlorotoluene)	10.40	9.34	90
1,3-Dichlorobenzene	10.40	11.57	111
1,4-Dichlorobenzene	10.30	12.09	117
Sec-ButylBenzene	10.40	10.96	105
1,2-Dichlorobenzene	10.60	12.49	118
n-ButylBenzene	10.40	10.07	97
1,2-Dibromo-3-Chloropropane	10.40	10.54	101
1,2,4-Trichlorobenzene	11.00	9.29	84
Naphthalene	11.50	9.95	87
Hexachlorobutadiene	11.00	11.36	103

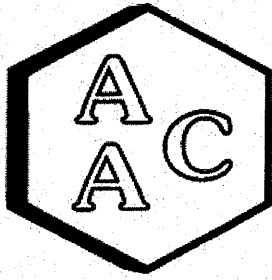
¹ Concentration of analyte compound in certified source standard.

² Measured result from daily Continuing Calibration Verification (CCV).

³ The acceptable range for analyte recovery is 100±30%.

LR - Recovery for this compound was low. Results should be considered estimated.





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 01/27/2022

MATRIX : High Purity N₂

UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02

CALIBRATION STD ID : MS1-010522-01

ANALYST : RC

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

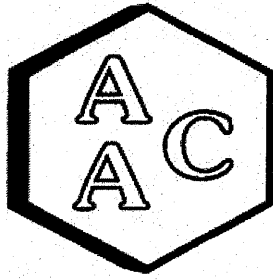
<i>System Monitoring Compounds</i>	<i>Sample Concentration</i>	<i>Spike Added</i>	<i>LCS¹ Recovery</i>	<i>LCSD¹ Recovery</i>	<i>LCS¹ % Recovery²</i>	<i>LCSD¹ % Recovery²</i>	<i>RPD³</i>
4-BFB (surrogate standard)	0.0	10.00	10.17	10.65	101.7	106.5	4.6
1,1-Dichloroethene	0.0	10.40	8.56	7.98	82	77	7.0
Methylene Chloride (DCM)	0.0	10.50	8.40	8.25	80	79	1.8
Benzene	0.0	10.60	10.70	10.56	101	100	1.3
Trichloroethene (TCE)	0.0	10.40	11.53	10.49	111	101	9.4
Toluene	0.0	10.60	11.88	11.69	112	110	1.6
Tetrachloroethene (PCE)	0.0	10.40	11.05	10.52	106	101	4.9
Chlorobenzene	0.0	10.60	10.92	10.67	103	101	2.3
Ethylbenzene	0.0	10.50	11.43	10.95	109	104	4.3
m & p-Xylene	0.0	21.00	22.27	22.69	106	108	1.9
o-Xylene	0.0	10.50	10.90	10.50	104	100	3.7

¹ Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

² The acceptable range for analyte recovery is 100±30%.

³ Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).





Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 01/27/2022

INSTRUMENT ID : GC/MS-02

MATRIX : High Purity He or N₂

ANALYST : RC

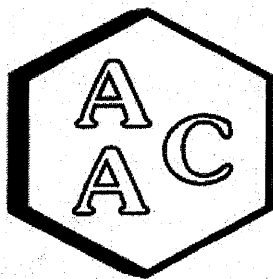
UNITS : PPB (v/v)

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Method Blank Analysis

Analyte Compounds	MB 012722	Reporting Limit (RL)	Analyte Compounds (Continued)	MB 012722	Reporting Limit (RL)
4-BFB (surrogate standard)	93%	100±30%	1,2-Dichloropropane	<RL	0.5
Chlorodifluoromethane	<RL	0.5	Bromodichloromethane	<RL	0.5
Propene	<RL	1.0	1,4-Dioxane	<RL	1.0
Dichlorodifluoromethane	<RL	0.5	Trichloroethene (TCE)	<RL	0.5
Dimethyl Ether	<RL	0.5	2,2,4-Trimethylpentane	<RL	0.5
Chloromethane	<RL	0.5	Methyl Methacrylate	<RL	2.0
Dichlorotetrafluoroethane	<RL	0.5	Heptane	<RL	0.5
Vinyl Chloride	<RL	0.5	cis-1,3-Dichloropropene	<RL	0.5
Acetaldehyde	<RL	5.0	4-Methyl-2-pentanone (MiBK)	<RL	2.0
Methanol	<RL	5.0	trans-1,3-Dichloropropene	<RL	1.0
1,3-Butadiene	<RL	0.5	1,1,2-Trichloroethane	<RL	0.5
Bromomethane	<RL	0.5	Toluene	<RL	0.5
Chloroethane	<RL	0.5	2-Hexanone (MBK)	<RL	5.0
Dichlorofluoromethane	<RL	0.5	Dibromochloromethane	<RL	0.5
Ethanol	<RL	2.0	1,2-Dibromoethane	<RL	0.5
Vinyl Bromide	<RL	0.5	Tetrachloroethene (PCE)	<RL	0.5
Acrolein	<RL	1.0	Chlorobenzene	<RL	0.5
Acetone	<RL	2.0	Ethylbenzene	<RL	1.0
Trichlorofluoromethane	<RL	0.5	m & p-Xylene	<RL	1.0
2-Propanol (IPA)	<RL	2.0	Bromoform	<RL	0.5
Acrylonitrile	<RL	2.0	Styrene	<RL	2.0
1,1-Dichloroethene	<RL	0.5	1,1,2,2-Tetrachloroethane	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0	o-Xylene	<RL	1.0
TertButanol (TBA)	<RL	0.5	1,2,3-Trichloropropane	<RL	0.5
Allyl Chloride	<RL	1.0	Isopropylbenzene (Cumene)	<RL	0.5
Carbon Disulfide	<RL	2.0	α-Pinene	<RL	2.0
Trichlorotrifluoroethane	<RL	0.5	2-Chlorotoluene	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5	n-Propylbenzene	<RL	0.5
1,1-Dichloroethane	<RL	0.5	4-Ethyltoluene	<RL	1.0
Methyl Tert Butyl Ether (MTBE)	<RL	2.0	1,3,5-Trimethylbenzene	<RL	1.0
Vinyl Acetate	<RL	1.0	β-Pinene	<RL	5.0
2-Butanone (MEK)	<RL	1.0	1,2,4-Trimethylbenzene	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5	Benzyl Chloride (a-Chlorotoluene)	<RL	2.0
Hexane	<RL	0.5	1,3-Dichlorobenzene	<RL	0.5
Chloroform	<RL	0.5	1,4-Dichlorobenzene	<RL	0.5
Ethyl Acetate	<RL	0.5	Sec-ButylBenzene	<RL	1.0
Tetrahydrofuran	<RL	0.5	1,2-Dichlorobenzene	<RL	0.5
1,2-Dichloroethane	<RL	0.5	n-ButylBenzene	<RL	2.0
1,1,1-Trichloroethane	<RL	0.5	1,2-Dibromo-3-Chloropropane	<RL	1.0
Benzene	<RL	0.5	1,2,4-Trichlorobenzene	<RL	5.0
Carbon Tetrachloride	<RL	0.5	Naphthalene	<RL	5.0
Cyclohexane	<RL	1.0	Hexachlorobutadiene	<RL	0.5





Atmospheric Analysis & Consulting, Inc

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 01/27/2022
 MATRIX : Air
 UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-02
 ANALYST : RC
 DILUTION FACTOR¹ : x1.91

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 220168-27351

Analyte Compounds	Sample	Duplicate	RPD ²
4-BFB (surrogate standard)	9.28	9.50	2.3
Chlorodifluoromethane	<SRL	<SRL	NA
Propene	<SRL	<SRL	NA
Dichlorodifluoromethane	<SRL	<SRL	NA
Dimethyl Ether	<SRL	<SRL	NA
Chloromethane	<SRL	<SRL	NA
Dichlorotetrafluoroethane	<SRL	<SRL	NA
Vinyl Chloride	<SRL	<SRL	NA
Acetaldehyde	<SRL	<SRL	NA
Methanol	J 7.31	6.20	16.4
1,3-Butadiene	<SRL	<SRL	NA
Bromomethane	<SRL	<SRL	NA
Chloroethane	<SRL	<SRL	NA
Dichlorofluoromethane	<SRL	<SRL	NA
Ethanol	<SRL	<SRL	NA
Vinyl Bromide	<SRL	<SRL	NA
Acrolein	<SRL	<SRL	NA
Acetone	J 2.12	2.29	7.8
Trichlorofluoromethane	<SRL	<SRL	NA
2-Propanol (IPA)	<SRL	<SRL	NA
Acrylonitrile	<SRL	<SRL	NA
1,1-Dichloroethene	<SRL	<SRL	NA
Methylene Chloride (DCM)	<SRL	<SRL	NA
TertButanol (TBA)	<SRL	<SRL	NA
Allyl Chloride	<SRL	<SRL	NA
Carbon Disulfide	<SRL	<SRL	NA
Trichlorotrifluoroethane	<SRL	<SRL	NA
trans-1,2-Dichloroethene	<SRL	<SRL	NA
1,1-Dichloroethane	<SRL	<SRL	NA
Methyl Tert Butyl Ether (MTBE)	<SRL	<SRL	NA
Vinyl Acetate	<SRL	<SRL	NA
2-Butanone (MEK)	<SRL	<SRL	NA
cis-1,2-Dichloroethene	<SRL	<SRL	NA
Hexane	<SRL	<SRL	NA
Chloroform	<SRL	<SRL	NA
Ethyl Acetate	<SRL	<SRL	NA
Tetrahydrofuran	<SRL	<SRL	NA
1,2-Dichloroethane	<SRL	<SRL	NA
1,1,1-Trichloroethane	<SRL	<SRL	NA
Benzene	<SRL	<SRL	NA
Carbon Tetrachloride	<SRL	<SRL	NA
Cyclohexane	<SRL	<SRL	NA

Analyte Compounds (Continued)	Sample	Duplicate	RPD ²
1,2-Dichloropropane	<SRL	<SRL	NA
Bromodichloromethane	<SRL	<SRL	NA
1,4-Dioxane	<SRL	<SRL	NA
Trichloroethene (TCE)	<SRL	<SRL	NA
2,2,4-Trimethylpentane	<SRL	<SRL	NA
Methyl Methacrylate	<SRL	<SRL	NA
Heptane	<SRL	<SRL	NA
cis-1,3-Dichloropropene	<SRL	<SRL	NA
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	NA
trans-1,3-Dichloropropene	<SRL	<SRL	NA
1,1,2-Trichloroethane	<SRL	<SRL	NA
Toluene	<SRL	<SRL	NA
2-Hexanone (MBK)	<SRL	<SRL	NA
Dibromochloromethane	<SRL	<SRL	NA
1,2-Dibromoethane	<SRL	<SRL	NA
Tetrachloroethene (PCE)	<SRL	<SRL	NA
Chlorobenzene	<SRL	<SRL	NA
Ethylbenzene	<SRL	<SRL	NA
m & p-Xylene	<SRL	<SRL	NA
Bromoform	<SRL	<SRL	NA
Styrene	<SRL	<SRL	NA
1,1,2,2-Tetrachloroethane	<SRL	<SRL	NA
o-Xylene	<SRL	<SRL	NA
1,2,3-Trichloropropane	<SRL	<SRL	NA
Isopropylbenzene (Cumene)	<SRL	<SRL	NA
α-Pinene	<SRL	<SRL	NA
2-Chlorotoluene	<SRL	<SRL	NA
n-Propylbenzene	<SRL	<SRL	NA
4-Ethyltoluene	<SRL	<SRL	NA
1,3,5-Trimethylbenzene	<SRL	<SRL	NA
β-Pinene	<SRL	<SRL	NA
1,2,4-Trimethylbenzene	<SRL	<SRL	NA
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	NA
1,3-Dichlorobenzene	<SRL	<SRL	NA
1,4-Dichlorobenzene	<SRL	<SRL	NA
Sec-ButylBenzene	<SRL	<SRL	NA
1,2-Dichlorobenzene	<SRL	<SRL	NA
n-ButylBenzene	<SRL	<SRL	NA
1,2-Dibromo-3-Chloropropane	<SRL	<SRL	NA
1,2,4-Trichlorobenzene	<SRL	<SRL	NA
Naphthalene	<SRL	<SRL	NA
Hexachlorobutadiene	<SRL	<SRL	NA

¹ Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

² Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)

J - Estimated value between the detection limit and the minimum reporting limit, shown for duplication purposes only.



220 168



CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting • Phone: 805-650-1642 • Email: info@aaclab.com • 1534 Eastman Ave Suite A, Ventura, CA 93003					AAC Project No.:																																																																																																								
Client/Company Name <i>Freestone</i>		Project Name <i>DTG</i>			Analysis Requested <i>EPA TO-15 HCS + VOCs + TICs</i>					Send Report To (Name/Email/Address) <i>Kira Murray kiramurray@gofreestone.com 1100 Sadwin Ave, Suite 250 Bellevue, WA 98005</i>																																																																																																			
Project Manager Name <i>Kira Murray</i>		Project Number								Send Invoice To (Name/Email/Address) <i>Kira Murray kiramurray@gofreestone.com 1100 Sadwin Ave PO Number</i>																																																																																																			
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UPS 8x cans + 8x Entechs

220 168



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Client/Company Name Freestone Project Manager Name Kira Murray		Project Name DTG Project Number			Analysis Requested EPA TO-15 TOCS + VOCs + TICs				AAC Project No.: Send Report To (Name/Email/Address) Kira Murray kiramurray@gofreestone.com 1100 Judwin Ave, Suite 250 Richland, WA 99352 Send Invoice To (Name/Email/Address) Kira Murray kiramurray@gofreestone.com 1100 Judwin Ave PO Number	
Turnaround Time <input type="checkbox"/> Rush 24 h <input type="checkbox"/> Same Day <input type="checkbox"/> Rush 48 h <input type="checkbox"/> 5 Days <input type="checkbox"/> Rush 72 h <input checked="" type="checkbox"/> Normal		Sampler Name Print: Tracy Mallegren Signature: <i>[Signature]</i>							LAB USE ONLY	
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S-1 Vent		S-1	1/21/22	1249-1450	Canister 1	X	27344			
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S-6 Boundary		S-6	1/21/22	1257-1446	Canister 1	X	27349			
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S-8 Boundary		S-8	1/21/22	1445-1445	Canister 1	X	27351			
Client Notes/Special Instructions:					EDD? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LAB USE ONLY Notes: 212309 x200 / x2000			
Relinquished By Print: Signature:		Date Time	Received By Print: Signature:		Date Time					
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