

ALS Environmental

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LABORATORY REPORT

November 4, 2024

[REDACTED]

RE: Bristol VA / [REDACTED]

Dear [REDACTED]

Enclosed are the results of the samples submitted to our laboratory on October 8, 2024. For your reference, these analyses have been assigned our service request number P2404100.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

ALS | Environmental

Sarah Mock
Project Manager



Client: [REDACTED]
Project: Bristol VA / [REDACTED]

Service Request No: P2404100

CASE NARRATIVE

The samples were received intact under chain of custody on October 8, 2024 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Fixed Gases Analysis

Six samples were analyzed for fixed gases (hydrogen, oxygen, nitrogen, carbon monoxide, methane and carbon dioxide) according to modified EPA Method 3C (single injection) using a gas chromatograph equipped with a thermal conductivity detector (TCD). This procedure is described in laboratory SOP VOA-EPA3C. This method is included on the laboratory's DoD-ELAP scope of accreditation, however it is not included in the NELAP accreditation.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-20 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

Samples P2404100-001 through -011 were received with insufficient hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory and the data flagged to indicate the holding time exceedance.

Volatile Organic Compound Analysis

The samples were also analyzed for volatile organic compounds and tentatively identified compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The upper control criterion was exceeded for Benzene in the Continuing Calibration Verification (CCV) analyzed on October 24, 2024. Therefore, a potential for a high bias exists for those associated sample concentrations reported with positive results. The data has been qualified accordingly.

The spike recovery for cis-1,3-Dichloropropene in the Duplicate Laboratory Control Sample (DLCS) analyzed on October 31st 2024 and identified as P241030-DLCS was outside the lower control criterion. Recovery in the associated Laboratory Control Sample (LCS) meets the laboratory generated acceptance limits. No further corrective action was taken.

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The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Alaska DEC	https://dec.alaska.gov/spar/csp/lab-approval/list-of-approved-labs	17-019
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html	E871020
Louisiana DEQ (NELAP)	https://internet.deq.louisiana.gov/portal/divisions/lalap/accredited-laboratories	203013
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtm	CA01627
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	006-999-456
New Jersey DEP (NELAP)	https://dep.nj.gov/dsr/oqa/certified-laboratories/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oklahoma DEQ (NELAP)	labaccreditation.deq.ok.gov/labaccreditation/	2207
Oregon PHD (NELAP)	https://orelap.state.or.us/searchLabs	4068-012
Pennsylvania DEP	http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html	T104704413
Utah DOH (NELAP)	https://uphl.utah.gov/certifications/environmental-laboratory-certification/	CA016272024 -16
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: [REDACTED]
 Project ID: Bristol VA / [REDACTED] 200.0003

Service Request: P2404100

Date Received: 10/8/2024
 Time Received: 09:39

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	P _i l (psig)	P _f l (psig)			
							3C Modified - Fxd Gases Can	ASTM D 5504-20 - Sulfur Can	TO-15 Modified - VOC Cans
SW-5U	P2404100-001	Air	10/1/2024	11:18	-1.93	6.09	X	X	X
SW-5L	P2404100-002	Air	10/1/2024	11:28	-2.13	6.06	X	X	X
EW-69	P2404100-003	Air	10/1/2024	14:55	-2.32	6.35	X	X	X
EW-42	P2404100-004	Air	10/1/2024	14:36	-2.98	5.97	X	X	X
EW-86	P2404100-005	Air	10/1/2024	11:48	-3.32	6.29	X	X	X
EW-96	P2404100-006	Air	10/1/2024	14:08	-2.54	6.08	X	X	X
Station 1	P2404100-007	Air	10/2/2024	08:20	-2.01	3.82		X	X
Station 2	P2404100-008	Air	10/2/2024	07:49	-2.06	3.79		X	X
Station 3	P2404100-009	Air	10/2/2024	07:39	-1.53	3.87		X	X
Station 4	P2404100-010	Air	10/2/2024	08:38	-1.59	3.79		X	X
Trip Blank	P2404100-011	Air	10/1/2024	00:00	14.47	14.47		X	X



Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

2655 Park Center Drive, Suite A
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Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No.

P2404100

Company Name & Address (Reporting Information)						Project Name					ALS Contact:				Comments Report results down to MDL for TO-15 and ASTM D5504; report both ppb and ug/m3
						Bristol, VA Project Number P.O. # / Billing Information					Analysis Method				
											USEPA Method TO-15 + TICs	ASTM-D5504	EPA Method 3C Fixed Gases	TVOC	
Client Sample ID	Laboratory ID Number	Start Date	End Date	Start Time	End Time	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume					
SW-5U		10/1/2024	10/1/2024	1113	1118	109226	120021	30	4	0.87	X	X	X		
SW-5L		10/1/2024	10/1/2024	1123	1128	219242	120024	29	5	0.83	X	X	X		
EW-69		10/1/2024	10/1/2024	1450	1455	120206	120338	26	2	0.92	X	X	X		
EW-42		10/1/2024	10/1/2024	1431	1436	120005	120332	28	2	0.93	X	X	X		
EW-86		10/1/2024	10/1/2024	1143	1148	109935	120215	30	6	0.8	X	X	X		
EW-96		10/1/2024	10/1/2024	1403	1408	109937	120229	29	4	0.86	X	X	X		
Station 1		10/1/2024	10/2/2024	0820	0820	107284	119032	30	4.5	5.1	X	X		X	
Station 2		10/1/2024	10/2/2024	0846	0749	109194	120275	30	3	5.4	X	X		X	
Station 3		10/1/2024	10/2/2024	0828	0739	109492	119611	26	1	5.77	X	X		X	
Station 4		10/1/2024	10/2/2024	0838	0838	109497	119612	29	4	5.17	X	X		X	
Trip Blank		10/1/2024	---	---	---	120326	---	---	---	---	X	X		X	
Report Tier Levels - please select Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) ☒ _____ Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____ EDD required Yes / No _____ Type: _____ Units: _____ Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT														Project Requirements (MRLs, QAPP)	
Relinquished by: (Signature) _____		Date: 10/02/24	Time: 1110		Received by: (Signature) _____		Date: 10/2/24	Time: 0939		Cooler / Blank Temperature _____ °C					
Relinquished by: (Signature) _____		Date: _____	Time: _____		Received by: (Signature) _____		Date: 10/2/24	Time: _____							

4053 8683 9093
4053 5683 8960

ALS Environmental
Sample Acceptance Check Form

Client: [REDACTED] Work order: P2404100
Project: Bristol VA / [REDACTED] .200.0003
Sample(s) received on: 10/8/2024 Date opened: 10/8/2024 by: [REDACTED]

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | ☒ | ☐ | ☐ |
| 2 Did sample containers arrive in good condition? | ☒ | ☐ | ☐ |
| 3 Were chain-of-custody papers used and filled out? | ☒ | ☐ | ☐ |
| 4 Did sample container labels and/or tags agree with custody papers? | ☒ | ☐ | ☐ |
| 5 Was sample volume received adequate for analysis? | ☒ | ☐ | ☐ |
| 6 Are samples within specified holding times? | ☒ | ☐ | ☐ |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | ☐ | ☐ | ☒ |
| 8 Were custody seals on outside of cooler/Box/Container? | ☐ | ☒ | |
| Location of seal(s)? _____ Sealing Lid? | ☐ | ☐ | ☒ |
| Were signature and date included? | ☐ | ☐ | ☒ |
| Were seals intact? | ☐ | ☐ | ☒ |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | ☐ | ☐ | ☒ |
| Is there a client indication that the submitted samples are pH preserved? | ☐ | ☐ | ☒ |
| Were VOA vials checked for presence/absence of air bubbles? | ☐ | ☐ | ☒ |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | ☐ | ☐ | ☒ |
| 10 Tubes: Are the tubes capped and intact? | ☐ | ☐ | ☒ |
| 11 Badges: Are the badges properly capped and intact? | ☐ | ☐ | ☒ |
| Are dual bed badges separated and individually capped and intact? | ☐ | ☐ | ☒ |
| 12 Lab Notification: Analyst and PM were alerted of Short HT or RUSH samples? | ☐ | ☐ | ☒ |
| 13 Client Notification: Client has been notified regarding HT exceedances and/or other CoC discrepancies? | ☐ | ☐ | ☒ |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2404100-001.01	Canister Client Supplied					
P2404100-002.01	Canister Client Supplied					
P2404100-003.01	Canister Client Supplied					
P2404100-004.01	Canister Client Supplied					
P2404100-005.01	Canister Client Supplied					
P2404100-006.01	Canister Client Supplied					
P2404100-007.01	Canister Client Supplied					
P2404100-008.01	Canister Client Supplied					
P2404100-009.01	Canister Client Supplied					
P2404100-010.01	Canister Client Supplied					
P2404100-011.01	Canister Client Supplied					
P2404100-012.01	Canister Client Supplied					
P2404100-013.01	Canister Client Supplied					

Explain any discrepancies: (include lab sample ID numbers): _____

Client Flow controllers and 2 extra canisters were received with samples that will be needing to send back to client.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: SW-5U
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-001

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -1.93 **Final Pressure (psig):** 6.09

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	ND	130,000	
7782-44-7	Oxygen*	218,000,000	2,100,000	
7727-37-9	Nitrogen	886,000,000	1,900,000	
630-08-0	Carbon Monoxide	ND	1,900,000	
74-82-8	Methane	1,090,000	1,100,000	K
124-38-9	Carbon Dioxide	103,000,000	2,900,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

K = Analyte was detected above the method reporting limit prior to normalization.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: SW-5L
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-002

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.13 **Final Pressure (psig):** 6.06

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	ND	140,000	
7782-44-7	Oxygen*	265,000,000	2,200,000	
7727-37-9	Nitrogen	885,000,000	1,900,000	
630-08-0	Carbon Monoxide	ND	1,900,000	
74-82-8	Methane	2,470,000	1,100,000	
124-38-9	Carbon Dioxide	38,000,000	3,000,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: EW-69
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-003

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.32 **Final Pressure (psig):** 6.35

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	ND	140,000	
7782-44-7	Oxygen*	20,600,000	2,200,000	
7727-37-9	Nitrogen	437,000,000	1,900,000	
630-08-0	Carbon Monoxide	ND	1,900,000	
74-82-8	Methane	205,000,000	1,100,000	
124-38-9	Carbon Dioxide	521,000,000	3,100,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: EW-42
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-004

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.98 **Final Pressure (psig):** 5.97

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	ND	150,000	
7782-44-7	Oxygen*	11,700,000	2,300,000	
7727-37-9	Nitrogen	317,000,000	2,000,000	
630-08-0	Carbon Monoxide	ND	2,000,000	
74-82-8	Methane	224,000,000	1,200,000	
124-38-9	Carbon Dioxide	672,000,000	3,200,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: EW-86
Client Project ID: Bristol VA / [REDACTED] 00.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-005

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -3.32 **Final Pressure (psig):** 6.29

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	867,000	150,000	
7782-44-7	Oxygen*	8,820,000	2,400,000	
7727-37-9	Nitrogen	78,600,000	2,100,000	
630-08-0	Carbon Monoxide	ND	2,100,000	
74-82-8	Methane	268,000,000	1,200,000	
124-38-9	Carbon Dioxide	908,000,000	3,300,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: EW-96
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-006

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/10/24
Volume(s) Analyzed: 0.10 ml(s)

Initial Pressure (psig): -2.54 **Final Pressure (psig):** 6.08

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	Data Qualifier
1333-74-0	Hydrogen	2,630,000	140,000	
7782-44-7	Oxygen*	15,800,000	2,200,000	
7727-37-9	Nitrogen	250,000,000	2,000,000	
630-08-0	Carbon Monoxide	ND	2,000,000	
74-82-8	Methane	241,000,000	1,100,000	
124-38-9	Carbon Dioxide	668,000,000	3,100,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client:

Client Project ID: Bristol VA / .200.0003

ALS Project ID: P2404100

ALS Sample ID: P241010-MB

Test Code: EPA Method 3C Modified

Instrument ID: Agilent 8890/GC38/TCD

Analyst: Braden Kalous

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/10/24

Volume(s) Analyzed: 0.10 ml(s)

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Data Qualifier
1333-74-0	Hydrogen	ND	83,000	
7782-44-7	Oxygen*	ND	1,300,000	
7727-37-9	Nitrogen	ND	1,100,000	
630-08-0	Carbon Monoxide	ND	1,100,000	
74-82-8	Methane	ND	660,000	
124-38-9	Carbon Dioxide	ND	1,800,000	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

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ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P241010-DLCS

Test Code: EPA Method 3C Modified
Instrument ID: Agilent 8890/GC38/TCD
Analyst: Braden Kalous
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/10/24
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
1333-74-0	Hydrogen	3,310,000	3,710,000	3,720,000	112	112	96-117	0	5	
7782-44-7	Oxygen*	31,800,000	33,000,000	32,900,000	104	103	92-112	1.0	7	
7727-37-9	Nitrogen	56,900,000	57,100,000	57,000,000	100	100	89-113	0	7	
630-08-0	Carbon Monoxide	57,400,000	59,600,000	59,800,000	104	104	96-113	0	5	
74-82-8	Methane	25,700,000	26,900,000	27,000,000	105	105	95-111	0	5	
124-38-9	Carbon Dioxide	90,100,000	100,000,000	101,000,000	111	112	93-112	0.9	6	

* = The oxygen result may include argon due to coelution. Ambient air includes 0.93% argon.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: SW-5U
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-001

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 11:18
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 09:05
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -1.93 **Final Pressure (psig):** 6.09

Container Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	11	3.4	ND	8.2	2.4	
463-58-1	Carbonyl Sulfide	ND	20	7.6	ND	8.2	3.1	
74-93-1	Methyl Mercaptan	ND	16	6.4	ND	8.2	3.3	
75-08-1	Ethyl Mercaptan	ND	21	8.3	ND	8.2	3.3	
75-18-3	Dimethyl Sulfide	58	21	8.3	23	8.2	3.3	
75-15-0	Carbon Disulfide	5.3	13	5.1	1.7	4.1	1.6	J
75-33-2	Isopropyl Mercaptan	ND	25	10	ND	8.2	3.3	
75-66-1	tert-Butyl Mercaptan	ND	30	12	ND	8.2	3.3	
107-03-9	n-Propyl Mercaptan	ND	25	10	ND	8.2	3.3	
624-89-5	Ethyl Methyl Sulfide	ND	25	10	ND	8.2	3.3	
110-02-1	Thiophene	ND	28	11	ND	8.2	3.3	
513-44-0	Isobutyl Mercaptan	ND	30	12	ND	8.2	3.3	
352-93-2	Diethyl Sulfide	ND	30	12	ND	8.2	3.3	
109-79-5	n-Butyl Mercaptan	ND	30	12	ND	8.2	3.3	
624-92-0	Dimethyl Disulfide	49	16	6.3	13	4.1	1.6	
616-44-4	3-Methylthiophene	ND	33	13	ND	8.2	3.3	
110-01-0	Tetrahydrothiophene	ND	29	12	ND	8.2	3.3	
638-02-8	2,5-Dimethylthiophene	ND	37	15	ND	8.2	3.3	
872-55-9	2-Ethylthiophene	ND	37	15	ND	8.2	3.3	
110-81-6	Diethyl Disulfide	ND	20	16	ND	4.1	3.3	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: SW-5L
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-002

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 11:28
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 09:24
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.13 **Final Pressure (psig):** 6.06

Container Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	11	3.4	ND	8.3	2.5	
463-58-1	Carbonyl Sulfide	ND	20	7.7	ND	8.3	3.1	
74-93-1	Methyl Mercaptan	ND	16	6.5	ND	8.3	3.3	
75-08-1	Ethyl Mercaptan	ND	21	8.4	ND	8.3	3.3	
75-18-3	Dimethyl Sulfide	21	21	8.4	8.3	8.3	3.3	
75-15-0	Carbon Disulfide	ND	13	5.1	ND	4.1	1.7	
75-33-2	Isopropyl Mercaptan	ND	26	10	ND	8.3	3.3	
75-66-1	tert-Butyl Mercaptan	ND	30	12	ND	8.3	3.3	
107-03-9	n-Propyl Mercaptan	ND	26	10	ND	8.3	3.3	
624-89-5	Ethyl Methyl Sulfide	ND	26	10	ND	8.3	3.3	
110-02-1	Thiophene	19	28	11	5.6	8.3	3.3	J
513-44-0	Isobutyl Mercaptan	ND	30	12	ND	8.3	3.3	
352-93-2	Diethyl Sulfide	ND	30	12	ND	8.3	3.3	
109-79-5	n-Butyl Mercaptan	ND	30	12	ND	8.3	3.3	
624-92-0	Dimethyl Disulfide	10	16	6.4	2.7	4.1	1.7	J
616-44-4	3-Methylthiophene	ND	33	13	ND	8.3	3.3	
110-01-0	Tetrahydrothiophene	ND	30	12	ND	8.3	3.3	
638-02-8	2,5-Dimethylthiophene	ND	38	15	ND	8.3	3.3	
872-55-9	2-Ethylthiophene	ND	38	15	ND	8.3	3.3	
110-81-6	Diethyl Disulfide	ND	21	16	ND	4.1	3.3	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client:

W-69

Client Project ID: Bristol VA / .200.0003

ALS Project ID: P2404100

ALS Sample ID: P2404100-003

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 14:55
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 09:43
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.32 Final Pressure (psig): 6.35

Container Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	4.0	12	3.6	2.9	8.5	2.6	J
463-58-1	Carbonyl Sulfide	8.0	21	7.9	3.3	8.5	3.2	J
74-93-1	Methyl Mercaptan	ND	17	6.7	ND	8.5	3.4	
75-08-1	Ethyl Mercaptan	ND	22	8.6	ND	8.5	3.4	
75-18-3	Dimethyl Sulfide	20	22	8.6	8.0	8.5	3.4	J
75-15-0	Carbon Disulfide	7.9	13	5.3	2.5	4.3	1.7	J
75-33-2	Isopropyl Mercaptan	ND	26	11	ND	8.5	3.4	
75-66-1	tert-Butyl Mercaptan	ND	31	13	ND	8.5	3.4	
107-03-9	n-Propyl Mercaptan	ND	26	11	ND	8.5	3.4	
624-89-5	Ethyl Methyl Sulfide	ND	26	11	ND	8.5	3.4	
110-02-1	Thiophene	220	29	12	63	8.5	3.4	
513-44-0	Isobutyl Mercaptan	ND	31	13	ND	8.5	3.4	
352-93-2	Diethyl Sulfide	ND	31	13	ND	8.5	3.4	
109-79-5	n-Butyl Mercaptan	ND	31	13	ND	8.5	3.4	
624-92-0	Dimethyl Disulfide	ND	16	6.5	ND	4.3	1.7	
616-44-4	3-Methylthiophene	55	34	14	14	8.5	3.4	
110-01-0	Tetrahydrothiophene	75	31	12	21	8.5	3.4	
638-02-8	2,5-Dimethylthiophene	70	39	16	15	8.5	3.4	
872-55-9	2-Ethylthiophene	57	39	16	13	8.5	3.4	
110-81-6	Diethyl Disulfide	ND	21	17	ND	4.3	3.4	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: EW-42
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-004

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 14:36
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 10:02
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.98 **Final Pressure (psig):** 5.97

Container Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	12	3.7	ND	8.8	2.6	
463-58-1	Carbonyl Sulfide	88	22	8.2	36	8.8	3.3	
74-93-1	Methyl Mercaptan	ND	17	6.9	ND	8.8	3.5	
75-08-1	Ethyl Mercaptan	ND	22	8.9	ND	8.8	3.5	
75-18-3	Dimethyl Sulfide	610	22	8.9	240	8.8	3.5	
75-15-0	Carbon Disulfide	180	14	5.5	56	4.4	1.8	
75-33-2	Isopropyl Mercaptan	ND	27	11	ND	8.8	3.5	
75-66-1	tert-Butyl Mercaptan	ND	32	13	ND	8.8	3.5	
107-03-9	n-Propyl Mercaptan	ND	27	11	ND	8.8	3.5	
624-89-5	Ethyl Methyl Sulfide	50	27	11	16	8.8	3.5	
110-02-1	Thiophene	340	30	12	100	8.8	3.5	
513-44-0	Isobutyl Mercaptan	ND	32	13	ND	8.8	3.5	
352-93-2	Diethyl Sulfide	ND	32	13	ND	8.8	3.5	
109-79-5	n-Butyl Mercaptan	16	32	13	4.4	8.8	3.5	J
624-92-0	Dimethyl Disulfide	220	17	6.8	56	4.4	1.8	
616-44-4	3-Methylthiophene	71	35	14	18	8.8	3.5	
110-01-0	Tetrahydrothiophene	29	32	13	8.0	8.8	3.5	J
638-02-8	2,5-Dimethylthiophene	53	40	16	12	8.8	3.5	
872-55-9	2-Ethylthiophene	54	40	16	12	8.8	3.5	
110-81-6	Diethyl Disulfide	26	22	18	5.1	4.4	3.5	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: EW-86
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-005

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 11:48
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 11:14
Volume(s) Analyzed: 0.20 ml(s)

Initial Pressure (psig): -3.32 **Final Pressure (psig):** 6.29

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	18,000	64	19	13,000	46	14	
463-58-1	Carbonyl Sulfide	670	110	43	270	46	17	
74-93-1	Methyl Mercaptan	41,000	90	36	21,000	46	18	
75-08-1	Ethyl Mercaptan	1,500	120	47	570	46	18	
75-18-3	Dimethyl Sulfide	220,000	120	47	88,000	46	18	
75-15-0	Carbon Disulfide	ND	72	29	ND	23	9.2	
75-33-2	Isopropyl Mercaptan	2,900	140	57	930	46	18	
75-66-1	tert-Butyl Mercaptan	650	170	68	180	46	18	
107-03-9	n-Propyl Mercaptan	240	140	57	76	46	18	
624-89-5	Ethyl Methyl Sulfide	3,600	140	57	1,200	46	18	
110-02-1	Thiophene	10,000	160	63	2,900	46	18	
513-44-0	Isobutyl Mercaptan	ND	170	68	ND	46	18	
352-93-2	Diethyl Sulfide	540	170	68	150	46	18	
109-79-5	n-Butyl Mercaptan	1,100	170	68	290	46	18	
624-92-0	Dimethyl Disulfide	11,000	89	35	3,000	23	9.2	
616-44-4	3-Methylthiophene	1,400	180	74	360	46	18	
110-01-0	Tetrahydrothiophene	1,400	170	66	380	46	18	
638-02-8	2,5-Dimethylthiophene	500	210	84	110	46	18	
872-55-9	2-Ethylthiophene	530	210	84	120	46	18	
110-81-6	Diethyl Disulfide	ND	110	92	ND	23	18	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: EW-96
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-006

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H3

Date Collected: 10/1/24
Time Collected: 14:08
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 13:16
Volume(s) Analyzed: 0.30 ml(s)

Initial Pressure (psig): -2.54 **Final Pressure (psig):** 6.08

Container Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	40	12	ND	29	8.6	
463-58-1	Carbonyl Sulfide	550	70	27	220	29	11	
74-93-1	Methyl Mercaptan	ND	56	22	ND	29	11	
75-08-1	Ethyl Mercaptan	ND	72	29	ND	29	11	
75-18-3	Dimethyl Sulfide	140,000	72	29	55,000	29	11	
75-15-0	Carbon Disulfide	38	44	18	12	14	5.7	J
75-33-2	Isopropyl Mercaptan	ND	89	35	ND	29	11	
75-66-1	tert-Butyl Mercaptan	ND	110	42	ND	29	11	
107-03-9	n-Propyl Mercaptan	ND	89	35	ND	29	11	
624-89-5	Ethyl Methyl Sulfide	1,100	89	35	340	29	11	
110-02-1	Thiophene	2,100	98	39	610	29	11	
513-44-0	Isobutyl Mercaptan	260	110	42	71	29	11	
352-93-2	Diethyl Sulfide	410	110	42	110	29	11	
109-79-5	n-Butyl Mercaptan	290	110	42	77	29	11	
624-92-0	Dimethyl Disulfide	60,000	55	22	16,000	14	5.7	
616-44-4	3-Methylthiophene	430	110	46	110	29	11	
110-01-0	Tetrahydrothiophene	270	100	41	76	29	11	
638-02-8	2,5-Dimethylthiophene	290	130	52	64	29	11	
872-55-9	2-Ethylthiophene	300	130	52	66	29	11	
110-81-6	Diethyl Disulfide	ND	71	57	ND	14	11	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: Station 1
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-007

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H1

Date Collected: 10/2/24
Time Collected: 08:20
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 13:35
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.01 **Final Pressure (psig):** 3.82

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	10	3.1	ND	7.3	2.2	
463-58-1	Carbonyl Sulfide	ND	18	6.8	ND	7.3	2.8	
74-93-1	Methyl Mercaptan	ND	14	5.7	ND	7.3	2.9	
75-08-1	Ethyl Mercaptan	ND	19	7.4	ND	7.3	2.9	
75-18-3	Dimethyl Sulfide	16	19	7.4	6.2	7.3	2.9	J
75-15-0	Carbon Disulfide	ND	11	4.5	ND	3.7	1.5	
75-33-2	Isopropyl Mercaptan	ND	23	9.1	ND	7.3	2.9	
75-66-1	tert-Butyl Mercaptan	ND	27	11	ND	7.3	2.9	
107-03-9	n-Propyl Mercaptan	ND	23	9.1	ND	7.3	2.9	
624-89-5	Ethyl Methyl Sulfide	ND	23	9.1	ND	7.3	2.9	
110-02-1	Thiophene	ND	25	10	ND	7.3	2.9	
513-44-0	Isobutyl Mercaptan	ND	27	11	ND	7.3	2.9	
352-93-2	Diethyl Sulfide	ND	27	11	ND	7.3	2.9	
109-79-5	n-Butyl Mercaptan	ND	27	11	ND	7.3	2.9	
624-92-0	Dimethyl Disulfide	16	14	5.6	4.1	3.7	1.5	
616-44-4	3-Methylthiophene	ND	29	12	ND	7.3	2.9	
110-01-0	Tetrahydrothiophene	ND	26	11	ND	7.3	2.9	
638-02-8	2,5-Dimethylthiophene	ND	33	13	ND	7.3	2.9	
872-55-9	2-Ethylthiophene	ND	33	13	ND	7.3	2.9	
110-81-6	Diethyl Disulfide	ND	18	15	ND	3.7	2.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: Station 2
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
ALS Sample ID: P2404100-008

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H1

Date Collected: 10/2/24
Time Collected: 07:49
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 13:54
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.06 **Final Pressure (psig):** 3.79

Container Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	10	3.1	ND	7.3	2.2	
463-58-1	Carbonyl Sulfide	ND	18	6.8	ND	7.3	2.8	
74-93-1	Methyl Mercaptan	ND	14	5.7	ND	7.3	2.9	
75-08-1	Ethyl Mercaptan	ND	19	7.4	ND	7.3	2.9	
75-18-3	Dimethyl Sulfide	ND	19	7.4	ND	7.3	2.9	
75-15-0	Carbon Disulfide	ND	11	4.5	ND	3.7	1.5	
75-33-2	Isopropyl Mercaptan	ND	23	9.1	ND	7.3	2.9	
75-66-1	tert-Butyl Mercaptan	ND	27	11	ND	7.3	2.9	
107-03-9	n-Propyl Mercaptan	ND	23	9.1	ND	7.3	2.9	
624-89-5	Ethyl Methyl Sulfide	ND	23	9.1	ND	7.3	2.9	
110-02-1	Thiophene	ND	25	10	ND	7.3	2.9	
513-44-0	Isobutyl Mercaptan	ND	27	11	ND	7.3	2.9	
352-93-2	Diethyl Sulfide	ND	27	11	ND	7.3	2.9	
109-79-5	n-Butyl Mercaptan	ND	27	11	ND	7.3	2.9	
624-92-0	Dimethyl Disulfide	6.6	14	5.6	1.7	3.7	1.5	J
616-44-4	3-Methylthiophene	ND	29	12	ND	7.3	2.9	
110-01-0	Tetrahydrothiophene	ND	26	11	ND	7.3	2.9	
638-02-8	2,5-Dimethylthiophene	ND	33	13	ND	7.3	2.9	
872-55-9	2-Ethylthiophene	ND	33	13	ND	7.3	2.9	
110-81-6	Diethyl Disulfide	ND	18	15	ND	3.7	2.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client:

Client Project ID: Bristol VA / .200.0003

ALS Project ID: P2404100

ALS Sample ID: P2404100-009

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H1

Date Collected: 10/2/24
Time Collected: 07:39
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 14:13
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.87

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	9.8	2.9	ND	7.1	2.1	
463-58-1	Carbonyl Sulfide	ND	17	6.6	ND	7.1	2.7	
74-93-1	Methyl Mercaptan	ND	14	5.5	ND	7.1	2.8	
75-08-1	Ethyl Mercaptan	ND	18	7.2	ND	7.1	2.8	
75-18-3	Dimethyl Sulfide	ND	18	7.2	ND	7.1	2.8	
75-15-0	Carbon Disulfide	ND	11	4.4	ND	3.5	1.4	
75-33-2	Isopropyl Mercaptan	ND	22	8.8	ND	7.1	2.8	
75-66-1	tert-Butyl Mercaptan	ND	26	10	ND	7.1	2.8	
107-03-9	n-Propyl Mercaptan	ND	22	8.8	ND	7.1	2.8	
624-89-5	Ethyl Methyl Sulfide	ND	22	8.8	ND	7.1	2.8	
110-02-1	Thiophene	ND	24	9.7	ND	7.1	2.8	
513-44-0	Isobutyl Mercaptan	ND	26	10	ND	7.1	2.8	
352-93-2	Diethyl Sulfide	ND	26	10	ND	7.1	2.8	
109-79-5	n-Butyl Mercaptan	ND	26	10	ND	7.1	2.8	
624-92-0	Dimethyl Disulfide	ND	14	5.4	ND	3.5	1.4	
616-44-4	3-Methylthiophene	ND	28	11	ND	7.1	2.8	
110-01-0	Tetrahydrothiophene	ND	25	10	ND	7.1	2.8	
638-02-8	2,5-Dimethylthiophene	ND	32	13	ND	7.1	2.8	
872-55-9	2-Ethylthiophene	ND	32	13	ND	7.1	2.8	
110-81-6	Diethyl Disulfide	ND	18	14	ND	3.5	2.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: XXXXXXXXXX
Client Sample ID: Station 4
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-010

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H1

Date Collected: 10/2/24
Time Collected: 08:38
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 14:56
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -1.59 **Final Pressure (psig):** 3.79

Container Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	3.6	9.8	2.9	2.6	7.1	2.1	J
463-58-1	Carbonyl Sulfide	ND	17	6.6	ND	7.1	2.7	
74-93-1	Methyl Mercaptan	ND	14	5.5	ND	7.1	2.8	
75-08-1	Ethyl Mercaptan	ND	18	7.2	ND	7.1	2.8	
75-18-3	Dimethyl Sulfide	20	18	7.2	7.9	7.1	2.8	
75-15-0	Carbon Disulfide	ND	11	4.4	ND	3.5	1.4	
75-33-2	Isopropyl Mercaptan	ND	22	8.8	ND	7.1	2.8	
75-66-1	tert-Butyl Mercaptan	ND	26	10	ND	7.1	2.8	
107-03-9	n-Propyl Mercaptan	ND	22	8.8	ND	7.1	2.8	
624-89-5	Ethyl Methyl Sulfide	ND	22	8.8	ND	7.1	2.8	
110-02-1	Thiophene	ND	24	9.7	ND	7.1	2.8	
513-44-0	Isobutyl Mercaptan	ND	26	10	ND	7.1	2.8	
352-93-2	Diethyl Sulfide	ND	26	10	ND	7.1	2.8	
109-79-5	n-Butyl Mercaptan	ND	26	10	ND	7.1	2.8	
624-92-0	Dimethyl Disulfide	ND	14	5.4	ND	3.5	1.4	
616-44-4	3-Methylthiophene	ND	28	11	ND	7.1	2.8	
110-01-0	Tetrahydrothiophene	ND	25	10	ND	7.1	2.8	
638-02-8	2,5-Dimethylthiophene	ND	32	13	ND	7.1	2.8	
872-55-9	2-Ethylthiophene	ND	32	13	ND	7.1	2.8	
110-81-6	Diethyl Disulfide	ND	18	14	ND	3.5	2.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: XXXXXXXXXX
Client Sample ID: Trip Blank
Client Project ID: Bristol VA / 1 XXXXXXXXXX.200.0003

ALS Project ID: P2404100
ALS Sample ID: P2404100-011

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes: H1

Date Collected: 10/1/24
Time Collected: NA
Date Received: 10/8/24
Date Analyzed: 10/10/24
Time Analyzed: 15:15
Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): 14.47 **Final Pressure (psig):** 14.47

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	2.1	ND	5.0	1.5	
463-58-1	Carbonyl Sulfide	ND	12	4.7	ND	5.0	1.9	
74-93-1	Methyl Mercaptan	ND	9.8	3.9	ND	5.0	2.0	
75-08-1	Ethyl Mercaptan	ND	13	5.1	ND	5.0	2.0	
75-18-3	Dimethyl Sulfide	ND	13	5.1	ND	5.0	2.0	
75-15-0	Carbon Disulfide	ND	7.8	3.1	ND	2.5	1.0	
75-33-2	Isopropyl Mercaptan	ND	16	6.2	ND	5.0	2.0	
75-66-1	tert-Butyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
107-03-9	n-Propyl Mercaptan	ND	16	6.2	ND	5.0	2.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	6.2	ND	5.0	2.0	
110-02-1	Thiophene	ND	17	6.9	ND	5.0	2.0	
513-44-0	Isobutyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
352-93-2	Diethyl Sulfide	ND	18	7.4	ND	5.0	2.0	
109-79-5	n-Butyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
624-92-0	Dimethyl Disulfide	ND	9.6	3.9	ND	2.5	1.0	
616-44-4	3-Methylthiophene	ND	20	8.0	ND	5.0	2.0	
110-01-0	Tetrahydrothiophene	ND	18	7.2	ND	5.0	2.0	
638-02-8	2,5-Dimethylthiophene	ND	23	9.2	ND	5.0	2.0	
872-55-9	2-Ethylthiophene	ND	23	9.2	ND	5.0	2.0	
110-81-6	Diethyl Disulfide	ND	12	10	ND	2.5	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H1 = Sample analysis performed past holding time. See case narrative.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: Method Blank
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P241010-MB

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes:

Date Collected: NA
Time Collected: NA
Date Received: NA
Date Analyzed: 10/10/24
Time Analyzed: 08:45
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	2.1	ND	5.0	1.5	
463-58-1	Carbonyl Sulfide	ND	12	4.7	ND	5.0	1.9	
74-93-1	Methyl Mercaptan	ND	9.8	3.9	ND	5.0	2.0	
75-08-1	Ethyl Mercaptan	ND	13	5.1	ND	5.0	2.0	
75-18-3	Dimethyl Sulfide	ND	13	5.1	ND	5.0	2.0	
75-15-0	Carbon Disulfide	ND	7.8	3.1	ND	2.5	1.0	
75-33-2	Isopropyl Mercaptan	ND	16	6.2	ND	5.0	2.0	
75-66-1	tert-Butyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
107-03-9	n-Propyl Mercaptan	ND	16	6.2	ND	5.0	2.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	6.2	ND	5.0	2.0	
110-02-1	Thiophene	ND	17	6.9	ND	5.0	2.0	
513-44-0	Isobutyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
352-93-2	Diethyl Sulfide	ND	18	7.4	ND	5.0	2.0	
109-79-5	n-Butyl Mercaptan	ND	18	7.4	ND	5.0	2.0	
624-92-0	Dimethyl Disulfide	ND	9.6	3.9	ND	2.5	1.0	
616-44-4	3-Methylthiophene	ND	20	8.0	ND	5.0	2.0	
110-01-0	Tetrahydrothiophene	ND	18	7.2	ND	5.0	2.0	
638-02-8	2,5-Dimethylthiophene	ND	23	9.2	ND	5.0	2.0	
872-55-9	2-Ethylthiophene	ND	23	9.2	ND	5.0	2.0	
110-81-6	Diethyl Disulfide	ND	12	10	ND	2.5	2.0	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P241010-DLCS

Test Code: ASTM D 5504-20
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Gilbert Gutierrez
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/10/24
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS ppbV	LCS ppbV	DLCS ppbV	LCS	DLCS	Acceptance Limits			
7783-06-4	Hydrogen Sulfide	1,000	1,000	1,060	100	106	72-122	6	18	
463-58-1	Carbonyl Sulfide	1,000	1,100	1,180	110	118	72-121	7	17	
74-93-1	Methyl Mercaptan	1,000	1,070	1,150	107	115	74-127	7	18	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: SW-5U
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
ALS Sample ID: P2404100-001

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -1.93 Final Pressure (psig): 6.09

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	420	86	21	250	50	12	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	85	14	ND	17	2.9	
74-87-3	Chloromethane	ND	88	14	ND	43	6.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	90	14	ND	13	2.0	
75-01-4	Vinyl Chloride	ND	86	21	ND	34	8.3	
106-99-0	1,3-Butadiene	ND	86	14	ND	39	6.5	
74-83-9	Bromomethane	ND	83	12	ND	21	3.1	
75-00-3	Chloroethane	ND	90	11	ND	34	4.1	
67-64-1	Acetone	ND	830	200	ND	350	82	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	83	13	ND	15	2.4	
67-63-0	2-Propanol (Isopropyl Alcohol)	44	160	36	18	66	15	J, B
75-35-4	1,1-Dichloroethene	16	73	12	4.0	19	3.0	J
75-09-2	Methylene Chloride	ND	75	24	ND	22	7.0	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	73	12	ND	9.6	1.6	
75-15-0	Carbon Disulfide	ND	170	26	ND	54	8.4	
156-60-5	trans-1,2-Dichloroethene	ND	86	21	ND	22	5.3	
75-34-3	1,1-Dichloroethane	ND	85	18	ND	21	4.4	
1634-04-4	Methyl tert-Butyl Ether	ND	88	10	ND	24	2.8	
108-05-4	Vinyl Acetate	ND	880	200	ND	250	56	
78-93-3	2-Butanone (MEK)	75	170	39	26	56	13	J
156-59-2	cis-1,2-Dichloroethene	ND	85	12	ND	21	3.1	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: SW-5U
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
ALS Sample ID: P2404100-001

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -1.93 Final Pressure (psig): 6.09

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	330	120	ND	91	34	
110-54-3	n-Hexane	95	86	18	27	25	5.1	
67-66-3	Chloroform	ND	88	12	ND	18	2.4	
109-99-9	Tetrahydrofuran (THF)	44	160	34	15	55	12	J
107-06-2	1,2-Dichloroethane	ND	83	9.6	ND	21	2.4	
71-55-6	1,1,1-Trichloroethane	ND	85	11	ND	16	2.0	
71-43-2	Benzene	370	83	13	120	26	3.9	V
56-23-5	Carbon Tetrachloride	ND	85	12	ND	13	1.9	
110-82-7	Cyclohexane	110	180	24	32	52	7.1	J
78-87-5	1,2-Dichloropropane	ND	88	11	ND	19	2.3	
75-27-4	Bromodichloromethane	ND	86	13	ND	13	1.9	
79-01-6	Trichloroethene	ND	85	12	ND	16	2.2	
123-91-1	1,4-Dioxane	ND	85	23	ND	24	6.3	
142-82-5	n-Heptane	ND	86	14	ND	21	3.4	
10061-01-5	cis-1,3-Dichloropropene	ND	86	14	ND	19	3.0	
108-10-1	4-Methyl-2-pentanone	ND	170	31	ND	42	7.6	
10061-02-6	trans-1,3-Dichloropropene	ND	80	18	ND	18	4.0	
79-00-5	1,1,2-Trichloroethane	ND	90	8.8	ND	16	1.6	
108-88-3	Toluene	61	88	11	16	23	2.8	J
591-78-6	2-Hexanone	ND	170	31	ND	41	7.6	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: SW-5U
Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-001

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -1.93 **Final Pressure (psig):** 6.09

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	83	11	ND	9.8	1.3	
106-93-4	1,2-Dibromoethane	ND	85	10	ND	11	1.3	
127-18-4	Tetrachloroethene	17	88	11	2.5	13	1.7	J
108-90-7	Chlorobenzene	ND	88	12	ND	19	2.5	
100-41-4	Ethylbenzene	110	90	12	26	21	2.8	
179601-23-1	m,p-Xylenes	130	170	23	30	40	5.3	J
75-25-2	Bromoform	ND	90	18	ND	8.7	1.7	
100-42-5	Styrene	ND	86	14	ND	20	3.3	
95-47-6	o-Xylene	51	88	13	12	20	2.9	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	88	12	ND	13	1.8	
98-82-8	Cumene	22	85	13	4.4	17	2.6	J
622-96-8	4-Ethyltoluene	23	85	14	4.6	17	2.8	J
108-67-8	1,3,5-Trimethylbenzene	71	88	13	14	18	2.6	J
95-63-6	1,2,4-Trimethylbenzene	71	85	12	14	17	2.5	J
100-44-7	Benzyl Chloride	ND	340	57	ND	65	11	
541-73-1	1,3-Dichlorobenzene	ND	85	13	ND	14	2.2	
106-46-7	1,4-Dichlorobenzene	ND	85	13	ND	14	2.2	
95-50-1	1,2-Dichlorobenzene	ND	85	13	ND	14	2.1	
120-82-1	1,2,4-Trichlorobenzene	ND	170	55	ND	24	7.5	
91-20-3	Naphthalene	ND	83	21	ND	16	4.0	
87-68-3	Hexachlorobutadiene	ND	83	18	ND	7.8	1.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: SW-5U

Client Project ID: Bristol VA / [REDACTED].200.0003

ALS Project ID: P2404100

ALS Sample ID: P2404100-001

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -1.93

Final Pressure (psig): 6.09

Canister Dilution Factor: 1.63

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.78	2-Methylpropene	1,200	
1.81	n-Butane	1,300	
2.81	Trimethylsilanol	2,000	
4.12	Hexamethyldisiloxane	10,000	
4.25	C7H12 compound	810	
4.27	C7H12 compound	970	
5.67	Hexamethylcyclotrisiloxane	4,700	
7.40	unknown hydrocarbon	770	
7.81	Octamethylcyclotetrasiloxane	29,000	
8.39	unknown hydrocarbon	1,200	
8.65	unknown hydrocarbon	1,500	
8.78	Decamethyltetrasiloxane	820	
9.96	unknown siloxane	2,100	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: XXXXXXXXXX
Client Sample ID: SW-5L
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003
Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

ALS Project ID: P2404100
ALS Sample ID: P2404100-002

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.13 Final Pressure (psig): 6.06

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	210	87	21	120	51	12	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	86	14	ND	17	2.9	
74-87-3	Chloromethane	ND	89	14	ND	43	6.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	91	14	ND	13	2.0	
75-01-4	Vinyl Chloride	ND	87	21	ND	34	8.4	
106-99-0	1,3-Butadiene	ND	87	15	ND	40	6.6	
74-83-9	Bromomethane	ND	84	12	ND	22	3.1	
75-00-3	Chloroethane	ND	91	11	ND	34	4.1	
67-64-1	Acetone	ND	840	200	ND	360	83	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	84	13	ND	15	2.4	
67-63-0	2-Propanol (Isopropyl Alcohol)	44	160	36	18	66	15	J, B
75-35-4	1,1-Dichloroethene	ND	74	12	ND	19	3.1	
75-09-2	Methylene Chloride	ND	76	25	ND	22	7.1	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	74	13	ND	9.7	1.6	
75-15-0	Carbon Disulfide	ND	170	26	ND	55	8.5	
156-60-5	trans-1,2-Dichloroethene	ND	87	21	ND	22	5.4	
75-34-3	1,1-Dichloroethane	ND	86	18	ND	21	4.5	
1634-04-4	Methyl tert-Butyl Ether	ND	89	10	ND	25	2.9	
108-05-4	Vinyl Acetate	ND	890	200	ND	250	56	
78-93-3	2-Butanone (MEK)	ND	170	40	ND	57	13	
156-59-2	cis-1,2-Dichloroethene	ND	86	12	ND	22	3.1	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: SW-5L
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003
Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

ALS Project ID: P2404100
ALS Sample ID: P2404100-002

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.13 Final Pressure (psig): 6.06

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	330	130	ND	92	35	
110-54-3	n-Hexane	56	87	18	16	25	5.2	J
67-66-3	Chloroform	ND	89	12	ND	18	2.4	
109-99-9	Tetrahydrofuran (THF)	ND	170	35	ND	56	12	
107-06-2	1,2-Dichloroethane	ND	84	9.7	ND	21	2.4	
71-55-6	1,1,1-Trichloroethane	ND	86	11	ND	16	2.0	
71-43-2	Benzene	920	84	13	290	26	4.0	V
56-23-5	Carbon Tetrachloride	ND	86	12	ND	14	1.9	
110-82-7	Cyclohexane	26	180	25	7.6	53	7.2	J
78-87-5	1,2-Dichloropropane	ND	89	11	ND	19	2.4	
75-27-4	Bromodichloromethane	ND	87	13	ND	13	1.9	
79-01-6	Trichloroethene	ND	86	12	ND	16	2.2	
123-91-1	1,4-Dioxane	ND	86	23	ND	24	6.4	
142-82-5	n-Heptane	28	87	14	6.8	21	3.4	J
10061-01-5	cis-1,3-Dichloropropene	ND	87	14	ND	19	3.0	
108-10-1	4-Methyl-2-pentanone	ND	170	31	ND	42	7.7	
10061-02-6	trans-1,3-Dichloropropene	ND	81	18	ND	18	4.0	
79-00-5	1,1,2-Trichloroethane	ND	91	8.9	ND	17	1.6	
108-88-3	Toluene	52	89	11	14	24	2.8	J
591-78-6	2-Hexanone	ND	170	31	ND	41	7.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: SW-5L
Client Project ID: Bristol VA / XXXXXXXXXX.200.0003

ALS Project ID: P2404100
 ALS Sample ID: P2404100-002

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: 10/1/24
Date Received: 10/8/24
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.13 **Final Pressure (psig):** 6.06

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	84	12	ND	9.9	1.4	
106-93-4	1,2-Dibromoethane	ND	86	10	ND	11	1.3	
127-18-4	Tetrachloroethene	ND	89	11	ND	13	1.7	
108-90-7	Chlorobenzene	ND	89	12	ND	19	2.5	
100-41-4	Ethylbenzene	280	91	12	63	21	2.9	
179601-23-1	m,p-Xylenes	120	180	23	27	41	5.3	J
75-25-2	Bromoform	ND	91	18	ND	8.8	1.8	
100-42-5	Styrene	ND	87	14	ND	21	3.3	
95-47-6	o-Xylene	80	89	13	18	21	2.9	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	89	12	ND	13	1.8	
98-82-8	Cumene	45	86	13	9.1	17	2.6	J
622-96-8	4-Ethyltoluene	16	86	14	3.3	17	2.9	J
108-67-8	1,3,5-Trimethylbenzene	36	89	13	7.4	18	2.6	J
95-63-6	1,2,4-Trimethylbenzene	50	86	12	10	17	2.5	J
100-44-7	Benzyl Chloride	ND	340	58	ND	66	11	
541-73-1	1,3-Dichlorobenzene	ND	86	13	ND	14	2.2	
106-46-7	1,4-Dichlorobenzene	ND	86	14	ND	14	2.3	
95-50-1	1,2-Dichlorobenzene	ND	86	13	ND	14	2.2	
120-82-1	1,2,4-Trichlorobenzene	ND	180	56	ND	24	7.6	
91-20-3	Naphthalene	ND	84	21	ND	16	4.1	
87-68-3	Hexachlorobutadiene	ND	84	18	ND	7.9	1.7	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: SW-5L

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-002

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.13

Final Pressure (psig): 6.06

Canister Dilution Factor: 1.65

GC/MS Retention Time	Compound Identification	Concentration µg/m³	Data Qualifier
2.81	Trimethylsilanol	1,100	
4.12	Hexamethyldisiloxane	2,100	
4.25	C7H12 compound	250	
5.67	Hexamethylcyclotrisiloxane	2,300	
7.13	3-Ethyl-2-Methylheptane	330	
7.22	Camphene	340	
7.40	unknown hydrocarbon	350	
7.81	Octamethylcyclotetrasiloxane	27,000	
8.21	unknown hydrocarbon	250	
8.31	unknown hydrocarbon	270	
8.39	2,3,8-Trimethyldecane	480	
8.65	C9H20 compound	520	
8.78	Decamethyltetrasiloxane	290	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-69

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-003

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala/Chase Griffin

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24 & 10/30/24

Volume(s) Analyzed: 0.010 Liter(s)

0.0020 Liter(s)

Initial Pressure (psig): -2.32 Final Pressure (psig): 6.35

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	1,800	90	22	1,100	52	13	
75-71-8	Dichlorodifluoromethane (CFC 12)	610	88	15	120	18	3.0	
74-87-3	Chloromethane	ND	92	15	ND	44	7.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	300	94	14	43	13	2.0	
75-01-4	Vinyl Chloride	25	90	22	9.8	35	8.6	J
106-99-0	1,3-Butadiene	ND	90	15	ND	41	6.8	
74-83-9	Bromomethane	ND	87	13	ND	22	3.2	
75-00-3	Chloroethane	ND	94	11	ND	35	4.3	
67-64-1	Acetone	ND	870	200	ND	370	86	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	87	14	ND	15	2.5	
67-63-0	2-Propanol (Isopropyl Alcohol)	66	170	37	27	68	15	J, B
75-35-4	1,1-Dichloroethene	ND	77	13	ND	19	3.2	
75-09-2	Methylene Chloride	ND	78	26	ND	23	7.3	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	77	13	ND	10	1.7	
75-15-0	Carbon Disulfide	ND	180	27	ND	57	8.7	
156-60-5	trans-1,2-Dichloroethene	ND	90	22	ND	23	5.6	
75-34-3	1,1-Dichloroethane	ND	88	19	ND	22	4.6	
1634-04-4	Methyl tert-Butyl Ether	ND	92	11	ND	25	3.0	
108-05-4	Vinyl Acetate	ND	910	200	ND	260	58	
78-93-3	2-Butanone (MEK)	ND	170	41	ND	59	14	
156-59-2	cis-1,2-Dichloroethene	75	88	13	19	22	3.2	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-69

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-003

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala/Chase Griffin

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24 & 10/30/24

Volume(s) Analyzed: 0.010 Liter(s)

0.0020 Liter(s)

Initial Pressure (psig): -2.32 Final Pressure (psig): 6.35

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	340	130	ND	94	36	
110-54-3	n-Hexane	380	90	19	110	26	5.3	
67-66-3	Chloroform	ND	92	12	ND	19	2.5	
109-99-9	Tetrahydrofuran (THF)	3,500	170	36	1,200	58	12	
107-06-2	1,2-Dichloroethane	ND	87	10	ND	21	2.5	
71-55-6	1,1,1-Trichloroethane	ND	88	11	ND	16	2.1	
71-43-2	Benzene	10,000	87	13	3,200	27	4.1	V
56-23-5	Carbon Tetrachloride	ND	88	13	ND	14	2.0	
110-82-7	Cyclohexane	260	190	26	76	54	7.4	
78-87-5	1,2-Dichloropropane	35	92	11	7.7	20	2.4	J
75-27-4	Bromodichloromethane	ND	90	13	ND	13	2.0	
79-01-6	Trichloroethene	ND	88	12	ND	16	2.3	
123-91-1	1,4-Dioxane	ND	88	24	ND	25	6.6	
142-82-5	n-Heptane	470	90	14	110	22	3.5	
10061-01-5	cis-1,3-Dichloropropene	ND	90	14	ND	20	3.1	
108-10-1	4-Methyl-2-pentanone	ND	180	32	ND	44	7.9	
10061-02-6	trans-1,3-Dichloropropene	ND	83	19	ND	18	4.1	
79-00-5	1,1,2-Trichloroethane	ND	94	9.2	ND	17	1.7	
108-88-3	Toluene	9,700	92	11	2,600	24	2.9	
591-78-6	2-Hexanone	ND	170	32	ND	42	7.9	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-69

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-003

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala/Chase Griffin

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24 & 10/30/24

Volume(s) Analyzed: 0.010 Liter(s)

0.0020 Liter(s)

Initial Pressure (psig): -2.32 Final Pressure (psig): 6.35

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	87	12	ND	10	1.4	
106-93-4	1,2-Dibromoethane	ND	88	11	ND	12	1.4	
127-18-4	Tetrachloroethene	28	92	12	4.1	14	1.7	J
108-90-7	Chlorobenzene	230	92	12	50	20	2.6	
100-41-4	Ethylbenzene	47,000	470	64	11,000	110	15	D
179601-23-1	m,p-Xylenes	22,000	180	24	5,000	42	5.5	
75-25-2	Bromoform	ND	94	19	ND	9.0	1.8	
100-42-5	Styrene	910	90	15	210	21	3.4	
95-47-6	o-Xylene	8,400	92	13	1,900	21	3.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	92	13	ND	13	1.8	
98-82-8	Cumene	3,700	88	13	750	18	2.7	
622-96-8	4-Ethyltoluene	1,800	88	14	360	18	2.9	
108-67-8	1,3,5-Trimethylbenzene	2,600	92	13	520	19	2.7	
95-63-6	1,2,4-Trimethylbenzene	4,500	88	13	920	18	2.6	
100-44-7	Benzyl Chloride	ND	350	60	ND	68	11	
541-73-1	1,3-Dichlorobenzene	26	88	14	4.2	15	2.3	J
106-46-7	1,4-Dichlorobenzene	ND	88	14	ND	15	2.3	
95-50-1	1,2-Dichlorobenzene	15	88	13	2.5	15	2.2	J
120-82-1	1,2,4-Trichlorobenzene	ND	180	58	ND	25	7.8	
91-20-3	Naphthalene	280	87	22	54	17	4.2	
87-68-3	Hexachlorobutadiene	ND	87	19	ND	8.1	1.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

D = The reported result is from a dilution.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-69

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-003

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala/Chase Griffin

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/24/24 & 10/30/24

Volume(s) Analyzed: 0.010 Liter(s)

0.0020 Liter(s)

Initial Pressure (psig): -2.32

Final Pressure (psig): 6.35

Canister Dilution Factor: 1.70

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
2.82	Trimethylsilanol	8,300	
4.13	Hexamethyldisiloxane	3,200	
5.67	Hexamethylcyclotrisiloxane	4,300	
6.59	n-Nonane	3,300	
7.05	alpha-Pinene	13,000	
7.13	3-Ethyl-2-Methylheptane	3,600	
7.40	unknown hydrocarbon	3,700	
7.81	Octamethylcyclotetrasiloxane	40,000	
8.16	C10H12 compound	3,800	
8.19	d-Limonene	7,800	
9.15	n-Undecane	4,400	
9.97	unknown siloxane	23,000	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-42

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-004

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.98 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.76

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	4,500	93	23	2,600	54	13	
75-71-8	Dichlorodifluoromethane (CFC 12)	25	92	15	5.1	19	3.1	J
74-87-3	Chloromethane	350	95	15	170	46	7.3	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	32	97	15	4.6	14	2.1	J
75-01-4	Vinyl Chloride	36	93	23	14	37	9.0	J
106-99-0	1,3-Butadiene	ND	93	15	ND	42	7.0	
74-83-9	Bromomethane	ND	90	13	ND	23	3.4	
75-00-3	Chloroethane	41	97	12	16	37	4.4	J
67-64-1	Acetone	3,400	900	210	1,400	380	89	
75-69-4	Trichlorofluoromethane (CFC 11)	22	90	14	3.9	16	2.5	J
67-63-0	2-Propanol (Isopropyl Alcohol)	500	170	39	200	71	16	B
75-35-4	1,1-Dichloroethene	ND	79	13	ND	20	3.3	
75-09-2	Methylene Chloride	ND	81	26	ND	23	7.6	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	79	13	ND	10	1.7	
75-15-0	Carbon Disulfide	320	180	28	100	59	9.0	
156-60-5	trans-1,2-Dichloroethene	ND	93	23	ND	24	5.8	
75-34-3	1,1-Dichloroethane	110	92	19	27	23	4.8	
1634-04-4	Methyl tert-Butyl Ether	ND	95	11	ND	26	3.1	
108-05-4	Vinyl Acetate	ND	950	210	ND	270	60	
78-93-3	2-Butanone (MEK)	640	180	42	220	61	14	
156-59-2	cis-1,2-Dichloroethene	170	92	13	42	23	3.3	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-42

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-004

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.98 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	350	130	ND	98	37	
110-54-3	n-Hexane	640	93	19	180	26	5.5	
67-66-3	Chloroform	29	95	12	5.9	19	2.6	J
109-99-9	Tetrahydrofuran (THF)	2,400	180	37	820	60	13	
107-06-2	1,2-Dichloroethane	ND	90	10	ND	22	2.6	
71-55-6	1,1,1-Trichloroethane	ND	92	12	ND	17	2.1	
71-43-2	Benzene	6,300	90	14	2,000	28	4.2	V
56-23-5	Carbon Tetrachloride	ND	92	13	ND	15	2.1	
110-82-7	Cyclohexane	690	190	26	200	56	7.7	
78-87-5	1,2-Dichloropropane	110	95	12	24	21	2.5	
75-27-4	Bromodichloromethane	ND	93	14	ND	14	2.0	
79-01-6	Trichloroethene	ND	92	13	ND	17	2.4	
123-91-1	1,4-Dioxane	ND	92	25	ND	25	6.8	
142-82-5	n-Heptane	1,500	93	15	360	23	3.7	
10061-01-5	cis-1,3-Dichloropropene	ND	93	15	ND	21	3.2	
108-10-1	4-Methyl-2-pentanone	520	180	33	130	45	8.2	
10061-02-6	trans-1,3-Dichloropropene	ND	86	19	ND	19	4.3	
79-00-5	1,1,2-Trichloroethane	ND	97	9.5	ND	18	1.7	
108-88-3	Toluene	19,000	95	11	4,900	25	3.0	
591-78-6	2-Hexanone	ND	180	33	ND	44	8.2	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-42

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-004

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.98 Final Pressure (psig): 5.97

Canister Dilution Factor: 1.76

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	90	12	ND	11	1.4	
106-93-4	1,2-Dibromoethane	ND	92	11	ND	12	1.4	
127-18-4	Tetrachloroethene	87	95	12	13	14	1.8	J
108-90-7	Chlorobenzene	260	95	12	56	21	2.7	
100-41-4	Ethylbenzene	18,000	97	13	4,200	22	3.0	
179601-23-1	m,p-Xylenes	19,000	190	25	4,300	43	5.7	
75-25-2	Bromoform	ND	97	19	ND	9.4	1.9	
100-42-5	Styrene	710	93	15	170	22	3.6	
95-47-6	o-Xylene	6,200	95	14	1,400	22	3.1	
79-34-5	1,1,2,2-Tetrachloroethane	ND	95	13	ND	14	1.9	
98-82-8	Cumene	2,300	92	14	470	19	2.8	
622-96-8	4-Ethyltoluene	1,900	92	15	390	19	3.0	
108-67-8	1,3,5-Trimethylbenzene	2,600	95	14	520	19	2.8	
95-63-6	1,2,4-Trimethylbenzene	5,200	92	13	1,100	19	2.7	
100-44-7	Benzyl Chloride	ND	360	62	ND	70	12	
541-73-1	1,3-Dichlorobenzene	140	92	14	23	15	2.3	
106-46-7	1,4-Dichlorobenzene	ND	92	14	ND	15	2.4	
95-50-1	1,2-Dichlorobenzene	110	92	14	18	15	2.3	
120-82-1	1,2,4-Trichlorobenzene	ND	190	60	ND	25	8.1	
91-20-3	Naphthalene	150	90	23	29	17	4.4	
87-68-3	Hexachlorobutadiene	ND	90	19	ND	8.4	1.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-42

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-004

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 0.010 Liter(s)

Initial Pressure (psig): -2.98

Final Pressure (psig): 5.97

Canister Dilution Factor: 1.76

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.80	n-Butane	4,700	
4.13	Hexamethyldisiloxane	5,100	
6.59	n-Nonane	3,800	
6.98	Propylcyclohexane	2,900	
7.05	alpha-Pinene	15,000	
7.13	unknown	3,400	
7.40	C11H24 compound	3,600	
7.81	Octamethylcyclotetrasiloxane	9,600	
7.84	n-Decane	7,800	
8.19	d-Limonene	8,000	
8.30	n-Butylcyclohexane	2,800	
8.65	C10H22 compound	2,700	
9.15	n-Undecane	3,600	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-86

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-005

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 6.29

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	57,000	4,900	1,200	33,000	2,800	700	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	4,800	800	ND	970	160	
74-87-3	Chloromethane	ND	5,000	790	ND	2,400	380	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5,100	770	ND	720	110	
75-01-4	Vinyl Chloride	ND	4,900	1,200	ND	1,900	470	
106-99-0	1,3-Butadiene	ND	4,900	810	ND	2,200	370	
74-83-9	Bromomethane	ND	4,700	680	ND	1,200	180	
75-00-3	Chloroethane	ND	5,100	610	ND	1,900	230	
67-64-1	Acetone	250,000	47,000	11,000	110,000	20,000	4,600	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	4,700	750	ND	840	130	
67-63-0	2-Propanol (Isopropyl Alcohol)	120,000	9,100	2,000	48,000	3,700	820	
75-35-4	1,1-Dichloroethene	ND	4,100	680	ND	1,000	170	
75-09-2	Methylene Chloride	ND	4,200	1,400	ND	1,200	400	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	4,100	700	ND	540	91	
75-15-0	Carbon Disulfide	ND	9,600	1,500	ND	3,100	470	
156-60-5	trans-1,2-Dichloroethene	ND	4,900	1,200	ND	1,200	300	
75-34-3	1,1-Dichloroethane	ND	4,800	1,000	ND	1,200	250	
1634-04-4	Methyl tert-Butyl Ether	ND	5,000	580	ND	1,400	160	
108-05-4	Vinyl Acetate	ND	49,000	11,000	ND	14,000	3,100	
78-93-3	2-Butanone (MEK)	210,000	9,400	2,200	71,000	3,200	750	
156-59-2	cis-1,2-Dichloroethene	1,000	4,800	690	260	1,200	170	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-86

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-005

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 6.29

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	18,000	7,000	ND	5,100	1,900	
110-54-3	n-Hexane	3,100	4,900	1,000	890	1,400	290	J
67-66-3	Chloroform	ND	5,000	650	ND	1,000	130	
109-99-9	Tetrahydrofuran (THF)	110,000	9,200	1,900	36,000	3,100	660	
107-06-2	1,2-Dichloroethane	ND	4,700	540	ND	1,200	130	
71-55-6	1,1,1-Trichloroethane	ND	4,800	610	ND	880	110	
71-43-2	Benzene	750,000	4,700	710	230,000	1,500	220	
56-23-5	Carbon Tetrachloride	ND	4,800	680	ND	760	110	
110-82-7	Cyclohexane	2,700	10,000	1,400	790	2,900	400	J
78-87-5	1,2-Dichloropropane	ND	5,000	610	ND	1,100	130	
75-27-4	Bromodichloromethane	ND	4,900	710	ND	730	110	
79-01-6	Trichloroethene	ND	4,800	660	ND	890	120	
123-91-1	1,4-Dioxane	ND	4,800	1,300	ND	1,300	360	
142-82-5	n-Heptane	7,200	4,900	780	1,800	1,200	190	
10061-01-5	cis-1,3-Dichloropropene	ND	4,900	760	ND	1,100	170	
108-10-1	4-Methyl-2-pentanone	17,000	9,700	1,700	4,200	2,400	430	
10061-02-6	trans-1,3-Dichloropropene	ND	4,500	1,000	ND	990	220	
79-00-5	1,1,2-Trichloroethane	ND	5,100	500	ND	930	91	
108-88-3	Toluene	160,000	5,000	600	41,000	1,300	160	
591-78-6	2-Hexanone	4,300	9,400	1,700	1,100	2,300	430	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-86

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-005

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -3.32 Final Pressure (psig): 6.29

Canister Dilution Factor: 1.84

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	4,700	640	ND	550	76	
106-93-4	1,2-Dibromoethane	ND	4,800	570	ND	620	74	
127-18-4	Tetrachloroethene	830	5,000	630	120	730	94	J
108-90-7	Chlorobenzene	2,200	5,000	650	480	1,100	140	J
100-41-4	Ethylbenzene	150,000	5,100	690	35,000	1,200	160	
179601-23-1	m,p-Xylenes	150,000	9,800	1,300	36,000	2,300	300	
75-25-2	Bromoform	ND	5,100	1,000	ND	490	98	
100-42-5	Styrene	8,200	4,900	790	1,900	1,100	190	
95-47-6	o-Xylene	50,000	5,000	710	11,000	1,100	160	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5,000	680	ND	720	99	
98-82-8	Cumene	14,000	4,800	710	2,900	970	140	
622-96-8	4-Ethyltoluene	14,000	4,800	780	2,900	970	160	
108-67-8	1,3,5-Trimethylbenzene	17,000	5,000	710	3,500	1,000	140	
95-63-6	1,2,4-Trimethylbenzene	37,000	4,800	680	7,600	970	140	
100-44-7	Benzyl Chloride	ND	19,000	3,200	ND	3,700	620	
541-73-1	1,3-Dichlorobenzene	ND	4,800	740	ND	800	120	
106-46-7	1,4-Dichlorobenzene	ND	4,800	750	ND	800	130	
95-50-1	1,2-Dichlorobenzene	ND	4,800	730	ND	800	120	
120-82-1	1,2,4-Trichlorobenzene	ND	9,800	3,100	ND	1,300	420	
91-20-3	Naphthalene	1,200	4,700	1,200	230	900	230	J
87-68-3	Hexachlorobutadiene	ND	4,700	1,000	ND	440	95	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-86

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-005

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00020 Liter(s)

Initial Pressure (psig): -3.32

Final Pressure (psig): 6.29

Canister Dilution Factor: 1.84

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.69	Dimethyl Ether	28	
1.79	2-Methylpropene	32	
1.98	Ethanol	28	
2.38	Dimethyl Sulfide	200	
3.03	2-Butanol	46	
4.12	Hexamethyldisiloxane	81	
4.57	Dimethyl disulfide	20	
7.04	alpha-Pinene	130	
7.80	Octamethylcyclotetrasiloxane	160	
7.83	n-Decane	110	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-96

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-006

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00080 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 6.08

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	28,000	1,100	280	16,000	660	160	
75-71-8	Dichlorodifluoromethane (CFC 12)	310	1,100	190	63	220	38	J
74-87-3	Chloromethane	2,500	1,200	180	1,200	560	89	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1,200	180	ND	170	26	
75-01-4	Vinyl Chloride	350	1,100	280	140	440	110	J
106-99-0	1,3-Butadiene	ND	1,100	190	ND	510	85	
74-83-9	Bromomethane	ND	1,100	160	ND	280	41	
75-00-3	Chloroethane	1,500	1,200	140	560	450	53	
67-64-1	Acetone	280,000	11,000	2,600	120,000	4,600	1,100	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	1,100	170	ND	190	31	
67-63-0	2-Propanol (Isopropyl Alcohol)	140,000	2,100	470	55,000	860	190	
75-35-4	1,1-Dichloroethene	ND	960	160	ND	240	40	
75-09-2	Methylene Chloride	ND	980	320	ND	280	92	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	960	160	ND	130	21	
75-15-0	Carbon Disulfide	ND	2,200	340	ND	710	110	
156-60-5	trans-1,2-Dichloroethene	ND	1,100	280	ND	290	70	
75-34-3	1,1-Dichloroethane	ND	1,100	240	ND	270	58	
1634-04-4	Methyl tert-Butyl Ether	ND	1,200	130	ND	320	37	
108-05-4	Vinyl Acetate	ND	11,000	2,600	ND	3,300	730	
78-93-3	2-Butanone (MEK)	200,000	2,200	510	69,000	740	170	
156-59-2	cis-1,2-Dichloroethene	790	1,100	160	200	280	40	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-96

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-006

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00080 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 6.08

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	26,000	4,300	1,600	7,300	1,200	450	
110-54-3	n-Hexane	1,300	1,100	240	360	320	67	
67-66-3	Chloroform	ND	1,200	150	ND	240	31	
109-99-9	Tetrahydrofuran (THF)	46,000	2,100	450	15,000	730	150	
107-06-2	1,2-Dichloroethane	3,100	1,100	130	770	270	31	
71-55-6	1,1,1-Trichloroethane	ND	1,100	140	ND	200	26	
71-43-2	Benzene	200,000	1,100	160	63,000	340	52	
56-23-5	Carbon Tetrachloride	ND	1,100	160	ND	180	25	
110-82-7	Cyclohexane	1,900	2,400	320	540	680	93	J
78-87-5	1,2-Dichloropropane	460	1,200	140	100	250	31	J
75-27-4	Bromodichloromethane	ND	1,100	160	ND	170	25	
79-01-6	Trichloroethene	480	1,100	150	90	210	29	J
123-91-1	1,4-Dioxane	3,900	1,100	300	1,100	310	83	
142-82-5	n-Heptane	5,200	1,100	180	1,300	280	44	
10061-01-5	cis-1,3-Dichloropropene	ND	1,100	180	ND	250	39	
108-10-1	4-Methyl-2-pentanone	14,000	2,200	410	3,300	550	99	
10061-02-6	trans-1,3-Dichloropropene	ND	1,000	240	ND	230	52	
79-00-5	1,1,2-Trichloroethane	ND	1,200	120	ND	220	21	
108-88-3	Toluene	82,000	1,200	140	22,000	310	37	
591-78-6	2-Hexanone	2,800	2,200	410	680	530	99	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-96

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-006

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00080 Liter(s)

Initial Pressure (psig): -2.54 Final Pressure (psig): 6.08

Canister Dilution Factor: 1.71

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	1,100	150	ND	130	18	
106-93-4	1,2-Dibromoethane	ND	1,100	130	ND	140	17	
127-18-4	Tetrachloroethene	1,400	1,200	150	200	170	22	
108-90-7	Chlorobenzene	960	1,200	150	210	250	33	J
100-41-4	Ethylbenzene	47,000	1,200	160	11,000	270	37	
179601-23-1	m,p-Xylenes	67,000	2,300	300	15,000	530	69	
75-25-2	Bromoform	ND	1,200	240	ND	110	23	
100-42-5	Styrene	5,200	1,100	180	1,200	270	43	
95-47-6	o-Xylene	22,000	1,200	160	5,100	270	38	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1,200	160	ND	170	23	
98-82-8	Cumene	6,500	1,100	160	1,300	230	33	
622-96-8	4-Ethyltoluene	7,400	1,100	180	1,500	230	37	
108-67-8	1,3,5-Trimethylbenzene	9,000	1,200	160	1,800	230	33	
95-63-6	1,2,4-Trimethylbenzene	22,000	1,100	160	4,500	230	32	
100-44-7	Benzyl Chloride	ND	4,400	750	ND	850	140	
541-73-1	1,3-Dichlorobenzene	ND	1,100	170	ND	180	28	
106-46-7	1,4-Dichlorobenzene	ND	1,100	180	ND	180	29	
95-50-1	1,2-Dichlorobenzene	ND	1,100	170	ND	180	28	
120-82-1	1,2,4-Trichlorobenzene	ND	2,300	730	ND	310	98	
91-20-3	Naphthalene	1,600	1,100	280	300	210	53	
87-68-3	Hexachlorobutadiene	ND	1,100	240	ND	100	22	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: EW-96

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-006

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/30/24

Volume(s) Analyzed: 0.00080 Liter(s)

Initial Pressure (psig): -2.54

Final Pressure (psig): 6.08

Canister Dilution Factor: 1.71

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
2.39	Dimethyl Sulfide	130	
2.44	Methyl Acetate	21	
2.67	1-Propanol	20	
2.80	Trimethylsilanol	20	
3.03	2-Butanol	70	
4.33	Methyl Butyrate	18	
4.57	Dimethyl disulfide	42	
6.59	n-Nonane	22	
7.04	C10H16 Compound	100	
7.80	Octamethylcyclotetrasiloxane	66	
7.83	n-Decane	59	
8.06	C10H14 Compound	20	
9.15	n-Undecane	33	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: XXXXXXXXXX

Client Sample ID: Station 1

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P2404100-007

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.01 Final Pressure (psig): 3.82

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.1	0.77	0.19	1.2	0.45	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.76	0.13	0.42	0.15	0.026	
74-87-3	Chloromethane	1.2	0.79	0.13	0.56	0.38	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.13	0.80	0.12	0.018	0.11	0.018	J
75-01-4	Vinyl Chloride	ND	0.77	0.19	ND	0.30	0.074	
106-99-0	1,3-Butadiene	ND	0.77	0.13	ND	0.35	0.058	
74-83-9	Bromomethane	ND	0.74	0.11	ND	0.19	0.028	
75-00-3	Chloroethane	0.12	0.80	0.096	0.044	0.30	0.037	J
67-64-1	Acetone	21	7.5	1.8	8.7	3.1	0.74	
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	0.74	0.12	0.20	0.13	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	6.7	1.4	0.32	2.7	0.59	0.13	B
75-35-4	1,1-Dichloroethene	ND	0.66	0.11	ND	0.17	0.027	
75-09-2	Methylene Chloride	0.30	0.67	0.22	0.087	0.19	0.063	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.49	0.66	0.11	0.064	0.086	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.49	0.075	
156-60-5	trans-1,2-Dichloroethene	ND	0.77	0.19	ND	0.20	0.048	
75-34-3	1,1-Dichloroethane	ND	0.76	0.16	ND	0.19	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.79	0.092	ND	0.22	0.026	
108-05-4	Vinyl Acetate	ND	7.8	1.8	ND	2.2	0.50	
78-93-3	2-Butanone (MEK)	8.2	1.5	0.35	2.8	0.51	0.12	
156-59-2	cis-1,2-Dichloroethene	ND	0.76	0.11	ND	0.19	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: [REDACTED]

Client Sample ID: Station 1

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-007

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.01 Final Pressure (psig): 3.82

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	2.4	2.9	1.1	0.66	0.81	0.31	J
110-54-3	n-Hexane	0.41	0.77	0.16	0.12	0.22	0.046	J
67-66-3	Chloroform	0.11	0.79	0.10	0.022	0.16	0.021	J
109-99-9	Tetrahydrofuran (THF)	1.9	1.5	0.31	0.63	0.50	0.10	
107-06-2	1,2-Dichloroethane	0.15	0.74	0.086	0.038	0.18	0.021	J
71-55-6	1,1,1-Trichloroethane	ND	0.76	0.096	ND	0.14	0.018	
71-43-2	Benzene	8.7	0.74	0.11	2.7	0.23	0.035	V
56-23-5	Carbon Tetrachloride	0.40	0.76	0.11	0.063	0.12	0.017	J
110-82-7	Cyclohexane	ND	1.6	0.22	ND	0.47	0.064	
78-87-5	1,2-Dichloropropane	ND	0.79	0.096	ND	0.17	0.021	
75-27-4	Bromodichloromethane	ND	0.77	0.11	ND	0.12	0.017	
79-01-6	Trichloroethene	ND	0.76	0.11	ND	0.14	0.020	
123-91-1	1,4-Dioxane	ND	0.76	0.20	ND	0.21	0.057	
142-82-5	n-Heptane	0.35	0.77	0.12	0.086	0.19	0.030	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.12	ND	0.17	0.027	
108-10-1	4-Methyl-2-pentanone	0.61	1.5	0.28	0.15	0.37	0.068	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.079	ND	0.15	0.014	
108-88-3	Toluene	4.5	0.79	0.095	1.2	0.21	0.025	
591-78-6	2-Hexanone	ND	1.5	0.28	ND	0.36	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX

Client Sample ID: Station 1

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P2404100-007

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.01 Final Pressure (psig): 3.82

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.74	0.10	ND	0.087	0.012	
106-93-4	1,2-Dibromoethane	ND	0.76	0.091	ND	0.099	0.012	
127-18-4	Tetrachloroethene	0.16	0.79	0.10	0.024	0.12	0.015	J
108-90-7	Chlorobenzene	ND	0.79	0.10	ND	0.17	0.023	
100-41-4	Ethylbenzene	2.4	0.80	0.11	0.55	0.18	0.025	
179601-23-1	m,p-Xylenes	3.0	1.6	0.20	0.69	0.36	0.047	
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	1.5	0.77	0.13	0.36	0.18	0.030	
95-47-6	o-Xylene	1.0	0.79	0.11	0.23	0.18	0.026	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.79	0.11	ND	0.11	0.016	
98-82-8	Cumene	0.29	0.76	0.11	0.060	0.15	0.023	J
622-96-8	4-Ethyltoluene	0.30	0.76	0.12	0.061	0.15	0.025	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.79	0.11	0.067	0.16	0.023	J
95-63-6	1,2,4-Trimethylbenzene	0.78	0.76	0.11	0.16	0.15	0.022	
100-44-7	Benzyl Chloride	ND	3.0	0.51	ND	0.58	0.099	
541-73-1	1,3-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	0.29	0.76	0.12	0.049	0.13	0.020	J
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.50	ND	0.21	0.067	
91-20-3	Naphthalene	0.24	0.74	0.19	0.046	0.14	0.036	J
87-68-3	Hexachlorobutadiene	ND	0.74	0.16	ND	0.070	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Station 1

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-007

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.01

Final Pressure (psig): 3.82

Canister Dilution Factor: 1.46

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.82	n-Butane	2.3	
1.98	Ethanol	11	
2.31	n-Pentane	2.0	
2.39	Dimethyl Sulfide	6.8	
3.04	2-Butanol	3.2	
5.67	Hexamethylcyclotrisiloxane	3.0	
7.04	alpha-Pinene	5.8	
8.19	d-Limonene	3.1	
	TVOC as Toluene	270	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: [REDACTED]

Client Sample ID: Station 2

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-008

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.06 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	0.86	0.77	0.19	0.50	0.45	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.76	0.13	0.44	0.15	0.026	
74-87-3	Chloromethane	1.3	0.79	0.13	0.65	0.38	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.14	0.80	0.12	0.020	0.11	0.018	J
75-01-4	Vinyl Chloride	ND	0.77	0.19	ND	0.30	0.074	
106-99-0	1,3-Butadiene	ND	0.77	0.13	ND	0.35	0.058	
74-83-9	Bromomethane	0.20	0.74	0.11	0.052	0.19	0.028	J
75-00-3	Chloroethane	ND	0.80	0.096	ND	0.30	0.037	
67-64-1	Acetone	14	7.5	1.8	5.8	3.1	0.74	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.74	0.12	0.21	0.13	0.021	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.7	1.4	0.32	0.70	0.59	0.13	B
75-35-4	1,1-Dichloroethene	ND	0.66	0.11	ND	0.17	0.027	
75-09-2	Methylene Chloride	0.32	0.67	0.22	0.092	0.19	0.063	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.52	0.66	0.11	0.068	0.086	0.014	J
75-15-0	Carbon Disulfide	0.25	1.5	0.23	0.081	0.49	0.075	J
156-60-5	trans-1,2-Dichloroethene	ND	0.77	0.19	ND	0.20	0.048	
75-34-3	1,1-Dichloroethane	ND	0.76	0.16	ND	0.19	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.79	0.092	ND	0.22	0.026	
108-05-4	Vinyl Acetate	1.8	7.8	1.8	0.51	2.2	0.50	J
78-93-3	2-Butanone (MEK)	1.7	1.5	0.35	0.57	0.51	0.12	
156-59-2	cis-1,2-Dichloroethene	ND	0.76	0.11	ND	0.19	0.028	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: [REDACTED]

Client Sample ID: Station 2

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-008

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.06 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	1.7	2.9	1.1	0.47	0.81	0.31	J
110-54-3	n-Hexane	0.39	0.77	0.16	0.11	0.22	0.046	J
67-66-3	Chloroform	0.11	0.79	0.10	0.022	0.16	0.021	J
109-99-9	Tetrahydrofuran (THF)	ND	1.5	0.31	ND	0.50	0.10	
107-06-2	1,2-Dichloroethane	ND	0.74	0.086	ND	0.18	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.76	0.096	ND	0.14	0.018	
71-43-2	Benzene	0.44	0.74	0.11	0.14	0.23	0.035	J, V
56-23-5	Carbon Tetrachloride	0.40	0.76	0.11	0.064	0.12	0.017	J
110-82-7	Cyclohexane	ND	1.6	0.22	ND	0.47	0.064	
78-87-5	1,2-Dichloropropane	ND	0.79	0.096	ND	0.17	0.021	
75-27-4	Bromodichloromethane	ND	0.77	0.11	ND	0.12	0.017	
79-01-6	Trichloroethene	0.13	0.76	0.11	0.023	0.14	0.020	J
123-91-1	1,4-Dioxane	ND	0.76	0.20	ND	0.21	0.057	
142-82-5	n-Heptane	0.24	0.77	0.12	0.059	0.19	0.030	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.12	ND	0.17	0.027	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.28	ND	0.37	0.068	
10061-02-6	trans-1,3-Dichloropropene	ND	0.72	0.16	ND	0.16	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.079	ND	0.15	0.014	
108-88-3	Toluene	2.6	0.79	0.095	0.68	0.21	0.025	
591-78-6	2-Hexanone	ND	1.5	0.28	ND	0.36	0.068	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Station 2

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-008

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.06 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.74	0.10	ND	0.087	0.012	
106-93-4	1,2-Dibromoethane	ND	0.76	0.091	ND	0.099	0.012	
127-18-4	Tetrachloroethene	ND	0.79	0.10	ND	0.12	0.015	
108-90-7	Chlorobenzene	ND	0.79	0.10	ND	0.17	0.023	
100-41-4	Ethylbenzene	0.43	0.80	0.11	0.10	0.18	0.025	J
179601-23-1	m,p-Xylenes	0.74	1.6	0.20	0.17	0.36	0.047	J
75-25-2	Bromoform	ND	0.80	0.16	ND	0.078	0.016	
100-42-5	Styrene	1.5	0.77	0.13	0.35	0.18	0.030	
95-47-6	o-Xylene	0.26	0.79	0.11	0.061	0.18	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.79	0.11	ND	0.11	0.016	
98-82-8	Cumene	ND	0.76	0.11	ND	0.15	0.023	
622-96-8	4-Ethyltoluene	ND	0.76	0.12	ND	0.15	0.025	
108-67-8	1,3,5-Trimethylbenzene	ND	0.79	0.11	ND	0.16	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.19	0.76	0.11	0.039	0.15	0.022	J
100-44-7	Benzyl Chloride	ND	3.0	0.51	ND	0.58	0.099	
541-73-1	1,3-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.76	0.12	ND	0.13	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	0.50	ND	0.21	0.067	
91-20-3	Naphthalene	ND	0.74	0.19	ND	0.14	0.036	
87-68-3	Hexachlorobutadiene	ND	0.74	0.16	ND	0.070	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Station 2

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-008

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.06

Final Pressure (psig): 3.79

Canister Dilution Factor: 1.46

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.56	Dimethyl Ether	240	
1.98	Ethanol	8.2	
2.31	n-Pentane	4.0	
5.67	Hexamethylcyclotrisiloxane	6.4	
7.80	Octamethylcyclotetrasiloxane	14	
	TVOC as Toluene	220	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: XXXXXXXXXX

Client Sample ID: Station 3

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P2404100-009

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.75	0.18	ND	0.43	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.73	0.12	0.43	0.15	0.025	
74-87-3	Chloromethane	1.0	0.76	0.12	0.51	0.37	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.12	0.78	0.12	0.017	0.11	0.017	J
75-01-4	Vinyl Chloride	ND	0.75	0.18	ND	0.29	0.072	
106-99-0	1,3-Butadiene	ND	0.75	0.12	ND	0.34	0.056	
74-83-9	Bromomethane	ND	0.72	0.10	ND	0.19	0.027	
75-00-3	Chloroethane	ND	0.78	0.093	ND	0.29	0.035	
67-64-1	Acetone	9.0	7.2	1.7	3.8	3.0	0.71	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.72	0.11	0.21	0.13	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.4	1.4	0.31	0.59	0.57	0.13	B
75-35-4	1,1-Dichloroethene	ND	0.63	0.10	ND	0.16	0.026	
75-09-2	Methylene Chloride	0.44	0.65	0.21	0.13	0.19	0.061	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.54	0.63	0.11	0.071	0.083	0.014	J
75-15-0	Carbon Disulfide	ND	1.5	0.23	ND	0.47	0.072	
156-60-5	trans-1,2-Dichloroethene	ND	0.75	0.18	ND	0.19	0.046	
75-34-3	1,1-Dichloroethane	ND	0.73	0.16	ND	0.18	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.089	ND	0.21	0.025	
108-05-4	Vinyl Acetate	ND	7.6	1.7	ND	2.2	0.48	
78-93-3	2-Butanone (MEK)	0.91	1.4	0.34	0.31	0.49	0.11	J
156-59-2	cis-1,2-Dichloroethene	ND	0.73	0.11	ND	0.19	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: [REDACTED]

Client Sample ID: Station 3

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-009

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	1.2	2.8	1.1	0.32	0.78	0.30	J
110-54-3	n-Hexane	0.39	0.75	0.16	0.11	0.21	0.044	J
67-66-3	Chloroform	0.70	0.76	0.10	0.14	0.16	0.021	J
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.30	ND	0.48	0.10	
107-06-2	1,2-Dichloroethane	ND	0.72	0.083	ND	0.18	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.73	0.093	ND	0.13	0.017	
71-43-2	Benzene	0.55	0.72	0.11	0.17	0.23	0.034	J, V
56-23-5	Carbon Tetrachloride	0.42	0.73	0.10	0.066	0.12	0.017	J
110-82-7	Cyclohexane	ND	1.6	0.21	ND	0.45	0.061	
78-87-5	1,2-Dichloropropane	ND	0.76	0.093	ND	0.16	0.020	
75-27-4	Bromodichloromethane	ND	0.75	0.11	ND	0.11	0.016	
79-01-6	Trichloroethene	0.23	0.73	0.10	0.043	0.14	0.019	J
123-91-1	1,4-Dioxane	ND	0.73	0.20	ND	0.20	0.055	
142-82-5	n-Heptane	0.15	0.75	0.12	0.036	0.18	0.029	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.12	ND	0.16	0.026	
108-10-1	4-Methyl-2-pentanone	ND	1.5	0.27	ND	0.36	0.065	
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	0.16	ND	0.15	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.78	0.076	ND	0.14	0.014	
108-88-3	Toluene	1.3	0.76	0.092	0.35	0.20	0.024	
591-78-6	2-Hexanone	ND	1.4	0.27	ND	0.35	0.065	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: [REDACTED]

Client Sample ID: Station 3

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-009

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.53 Final Pressure (psig): 3.87

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.72	0.099	ND	0.084	0.012	
106-93-4	1,2-Dibromoethane	ND	0.73	0.087	ND	0.095	0.011	
127-18-4	Tetrachloroethene	20	0.76	0.097	2.9	0.11	0.014	
108-90-7	Chlorobenzene	ND	0.76	0.10	ND	0.17	0.022	
100-41-4	Ethylbenzene	0.31	0.78	0.11	0.070	0.18	0.024	J
179601-23-1	m,p-Xylenes	0.54	1.5	0.20	0.13	0.35	0.045	J
75-25-2	Bromoform	ND	0.78	0.16	ND	0.075	0.015	
100-42-5	Styrene	1.1	0.75	0.12	0.25	0.18	0.028	
95-47-6	o-Xylene	0.20	0.76	0.11	0.046	0.18	0.025	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.76	0.10	ND	0.11	0.015	
98-82-8	Cumene	ND	0.73	0.11	ND	0.15	0.022	
622-96-8	4-Ethyltoluene	ND	0.73	0.12	ND	0.15	0.024	
108-67-8	1,3,5-Trimethylbenzene	ND	0.76	0.11	ND	0.15	0.022	
95-63-6	1,2,4-Trimethylbenzene	0.16	0.73	0.10	0.034	0.15	0.021	J
100-44-7	Benzyl Chloride	ND	2.9	0.49	ND	0.56	0.095	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.12	ND	0.12	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.48	ND	0.20	0.065	
91-20-3	Naphthalene	ND	0.72	0.18	ND	0.14	0.035	
87-68-3	Hexachlorobutadiene	ND	0.72	0.16	ND	0.067	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Station 3

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-009

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.53

Final Pressure (psig): 3.87

Canister Dilution Factor: 1.41

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.56	Dimethyl Ether	240	
5.67	Hexamethylcyclotrisiloxane	17	
7.80	Octamethylcyclotetrasiloxane	13	
	TVOC as Toluene	230	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: [REDACTED]

Client Sample ID: Station 4

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-010

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.59 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	2.7	0.75	0.18	1.6	0.43	0.11	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.73	0.12	0.43	0.15	0.025	
74-87-3	Chloromethane	1.1	0.76	0.12	0.52	0.37	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.12	0.78	0.12	0.018	0.11	0.017	J
75-01-4	Vinyl Chloride	ND	0.75	0.18	ND	0.29	0.072	
106-99-0	1,3-Butadiene	ND	0.75	0.12	ND	0.34	0.056	
74-83-9	Bromomethane	ND	0.72	0.10	ND	0.19	0.027	
75-00-3	Chloroethane	ND	0.78	0.093	ND	0.29	0.035	
67-64-1	Acetone	26	7.2	1.7	11	3.0	0.71	
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.72	0.11	0.21	0.13	0.020	
67-63-0	2-Propanol (Isopropyl Alcohol)	8.5	1.4	0.31	3.4	0.57	0.13	B
75-35-4	1,1-Dichloroethene	ND	0.63	0.10	ND	0.16	0.026	
75-09-2	Methylene Chloride	0.53	0.65	0.21	0.15	0.19	0.061	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.51	0.63	0.11	0.066	0.083	0.014	J
75-15-0	Carbon Disulfide	0.41	1.5	0.23	0.13	0.47	0.072	J
156-60-5	trans-1,2-Dichloroethene	ND	0.75	0.18	ND	0.19	0.046	
75-34-3	1,1-Dichloroethane	ND	0.73	0.16	ND	0.18	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.76	0.089	ND	0.21	0.025	
108-05-4	Vinyl Acetate	ND	7.6	1.7	ND	2.2	0.48	
78-93-3	2-Butanone (MEK)	10	1.4	0.34	3.4	0.49	0.11	
156-59-2	cis-1,2-Dichloroethene	ND	0.73	0.11	ND	0.19	0.027	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: [REDACTED]

Client Sample ID: Station 4

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-010

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.59 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	4.3	2.8	1.1	1.2	0.78	0.30	
110-54-3	n-Hexane	0.80	0.75	0.16	0.23	0.21	0.044	
67-66-3	Chloroform	0.15	0.76	0.10	0.031	0.16	0.021	J
109-99-9	Tetrahydrofuran (THF)	6.7	1.4	0.30	2.3	0.48	0.10	
107-06-2	1,2-Dichloroethane	ND	0.72	0.083	ND	0.18	0.021	
71-55-6	1,1,1-Trichloroethane	ND	0.73	0.093	ND	0.13	0.017	
71-43-2	Benzene	28	0.72	0.11	8.8	0.23	0.034	V
56-23-5	Carbon Tetrachloride	0.41	0.73	0.10	0.065	0.12	0.017	J
110-82-7	Cyclohexane	0.22	1.6	0.21	0.065	0.45	0.061	J
78-87-5	1,2-Dichloropropane	0.10	0.76	0.093	0.022	0.16	0.020	J
75-27-4	Bromodichloromethane	ND	0.75	0.11	ND	0.11	0.016	
79-01-6	Trichloroethene	ND	0.73	0.10	ND	0.14	0.019	
123-91-1	1,4-Dioxane	1.4	0.73	0.20	0.40	0.20	0.055	
142-82-5	n-Heptane	0.48	0.75	0.12	0.12	0.18	0.029	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.12	ND	0.16	0.026	
108-10-1	4-Methyl-2-pentanone	1.0	1.5	0.27	0.25	0.36	0.065	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.69	0.16	ND	0.15	0.034	
79-00-5	1,1,2-Trichloroethane	ND	0.78	0.076	ND	0.14	0.014	
108-88-3	Toluene	7.6	0.76	0.092	2.0	0.20	0.024	
591-78-6	2-Hexanone	0.48	1.4	0.27	0.12	0.35	0.065	J

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: [REDACTED]

Client Sample ID: Station 4

Client Project ID: Bristol VA / 1 [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-010

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.59 Final Pressure (psig): 3.79

Canister Dilution Factor: 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.72	0.099	ND	0.084	0.012	
106-93-4	1,2-Dibromoethane	ND	0.73	0.087	ND	0.095	0.011	
127-18-4	Tetrachloroethene	0.11	0.76	0.097	0.016	0.11	0.014	J
108-90-7	Chlorobenzene	0.10	0.76	0.10	0.022	0.17	0.022	J
100-41-4	Ethylbenzene	6.2	0.78	0.11	1.4	0.18	0.024	
179601-23-1	m,p-Xylenes	4.7	1.5	0.20	1.1	0.35	0.045	
75-25-2	Bromoform	ND	0.78	0.16	ND	0.075	0.015	
100-42-5	Styrene	1.7	0.75	0.12	0.39	0.18	0.028	
95-47-6	o-Xylene	1.9	0.76	0.11	0.43	0.18	0.025	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.76	0.10	ND	0.11	0.015	
98-82-8	Cumene	0.85	0.73	0.11	0.17	0.15	0.022	
622-96-8	4-Ethyltoluene	0.58	0.73	0.12	0.12	0.15	0.024	J
108-67-8	1,3,5-Trimethylbenzene	0.76	0.76	0.11	0.15	0.15	0.022	J
95-63-6	1,2,4-Trimethylbenzene	2.0	0.73	0.10	0.40	0.15	0.021	
100-44-7	Benzyl Chloride	ND	2.9	0.49	ND	0.56	0.095	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
106-46-7	1,4-Dichlorobenzene	0.39	0.73	0.12	0.065	0.12	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.73	0.11	ND	0.12	0.019	
120-82-1	1,2,4-Trichlorobenzene	ND	1.5	0.48	ND	0.20	0.065	
91-20-3	Naphthalene	ND	0.72	0.18	ND	0.14	0.035	
87-68-3	Hexachlorobutadiene	ND	0.72	0.16	ND	0.067	0.015	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 4 of 4

Client: [REDACTED]

Client Sample ID: Station 4

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-010

Tentatively Identified Compounds

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes: T

Date Collected: 10/2/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.59

Final Pressure (psig): 3.79

Canister Dilution Factor: 1.41

GC/MS Retention Time	Compound Identification	Concentration µg/m ³	Data Qualifier
1.82	n-Butane	2.9	
1.98	Ethanol	11	
2.31	n-Pentane	18	
2.39	Dimethyl Sulfide	21	
2.81	Trimethylsilanol	4.2	
3.04	2-Butanol	3.3	
4.57	Dimethyl disulfide	4.0	
5.67	Hexamethylcyclotrisiloxane	23	
7.04	alpha-Pinene	3.2	
8.06	p-Isopropyltoluene	6.2	
8.19	d-Limonene	3.8	
8.94	n-Nonanal	6.5	
9.14	n-Undecane	3.2	
	TVOC as Toluene	400	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: XXXXXXXXXX

Client Sample ID: Trip Blank

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P2404100-011

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 14.47 Final Pressure (psig): 14.47

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	0.13	ND	0.31	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.54	0.086	ND	0.26	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.55	0.084	ND	0.079	0.012	
75-01-4	Vinyl Chloride	ND	0.53	0.13	ND	0.21	0.051	
106-99-0	1,3-Butadiene	ND	0.53	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.55	0.066	ND	0.21	0.025	
67-64-1	Acetone	ND	5.1	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	0.081	ND	0.091	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.28	0.99	0.22	0.11	0.40	0.090	J, B
75-35-4	1,1-Dichloroethene	ND	0.45	0.074	ND	0.11	0.019	
75-09-2	Methylene Chloride	ND	0.46	0.15	ND	0.13	0.043	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.45	0.076	ND	0.059	0.0099	
75-15-0	Carbon Disulfide	ND	1.0	0.16	ND	0.33	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.13	ND	0.13	0.033	
75-34-3	1,1-Dichloroethane	ND	0.52	0.11	ND	0.13	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.4	1.2	ND	1.5	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.24	ND	0.35	0.081	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

B = Analyte detected in both the sample and associated method blank.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 4

Client: [REDACTED]

Client Sample ID: Trip Blank

Client Project ID: Bristol VA [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-011

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 14.47 Final Pressure (psig): 14.47

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	2.0	0.76	ND	0.56	0.21	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.21	ND	0.34	0.071	
107-06-2	1,2-Dichloroethane	ND	0.51	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.51	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.52	0.074	ND	0.083	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.54	0.066	ND	0.12	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.14	ND	0.14	0.039	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.19	ND	0.26	0.046	
10061-02-6	trans-1,3-Dichloropropene	ND	0.49	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.55	0.054	ND	0.10	0.0099	
108-88-3	Toluene	ND	0.54	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.0	0.19	ND	0.25	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: [REDACTED]

Client Sample ID: Trip Blank

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P2404100-011

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: 10/1/24

Date Received: 10/8/24

Date Analyzed: 10/25/24

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 14.47 Final Pressure (psig): 14.47

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.51	0.070	ND	0.060	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
127-18-4	Tetrachloroethene	ND	0.54	0.069	ND	0.080	0.010	
108-90-7	Chlorobenzene	ND	0.54	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.55	0.075	ND	0.13	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.55	0.11	ND	0.053	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.54	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	0.074	ND	0.079	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.52	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	2.1	0.35	ND	0.40	0.068	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.52	0.079	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	0.51	0.13	ND	0.097	0.025	
87-68-3	Hexachlorobutadiene	ND	0.51	0.11	ND	0.048	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 4 of 4

Client: [REDACTED]
Client Sample ID: Trip Blank
Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100
 ALS Sample ID: P2404100-011

Tentatively Identified Compounds

Test Code: EPA TO-15
 Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
 Analyst: Pruthuvi Heenatigala
 Sample Type: Canister
 Test Notes:

Date Collected: 10/1/24
 Date Received: 10/8/24
 Date Analyzed: 10/25/24
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 14.47 Final Pressure (psig): 14.47

Canister Dilution Factor: 1.00

GC/MS Retention Time	Compound Identification	Concentration µg/m³	Data Qualifier
	TVOC as Toluene	NF	

NF = Compound was searched for, but not found.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: XXXXXXXXXX

Client Sample ID: Method Blank

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P241024-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/24/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	0.13	ND	0.31	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.54	0.086	ND	0.26	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.55	0.084	ND	0.079	0.012	
75-01-4	Vinyl Chloride	ND	0.53	0.13	ND	0.21	0.051	
106-99-0	1,3-Butadiene	ND	0.53	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.55	0.066	ND	0.21	0.025	
67-64-1	Acetone	ND	5.1	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	0.081	ND	0.091	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.23	0.99	0.22	0.095	0.40	0.090	J
75-35-4	1,1-Dichloroethene	ND	0.45	0.074	ND	0.11	0.019	
75-09-2	Methylene Chloride	ND	0.46	0.15	ND	0.13	0.043	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.45	0.076	ND	0.059	0.0099	
75-15-0	Carbon Disulfide	ND	1.0	0.16	ND	0.33	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.13	ND	0.13	0.033	
75-34-3	1,1-Dichloroethane	ND	0.52	0.11	ND	0.13	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.4	1.2	ND	1.5	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.24	ND	0.35	0.081	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Method Blank

Client Project ID: Bristol VA [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P241024-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/24/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	2.0	0.76	ND	0.56	0.21	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.21	ND	0.34	0.071	
107-06-2	1,2-Dichloroethane	ND	0.51	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.51	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.52	0.074	ND	0.083	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.54	0.066	ND	0.12	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.14	ND	0.14	0.039	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.19	ND	0.26	0.046	
10061-02-6	trans-1,3-Dichloropropene	ND	0.49	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.55	0.054	ND	0.10	0.0099	
108-88-3	Toluene	ND	0.54	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.0	0.19	ND	0.25	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 4

Client: XXXXXXXXXX
Client Sample ID: Method Blank

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P241024-MB

Test Code: EPA TO-15
 Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
 Analyst: Pruthuvi Heenatigala
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/24/24
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.51	0.070	ND	0.060	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
127-18-4	Tetrachloroethene	ND	0.54	0.069	ND	0.080	0.010	
108-90-7	Chlorobenzene	ND	0.54	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.55	0.075	ND	0.13	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.55	0.11	ND	0.053	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.54	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	0.074	ND	0.079	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.52	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	2.1	0.35	ND	0.40	0.068	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.52	0.079	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	0.51	0.13	ND	0.097	0.025	
87-68-3	Hexachlorobutadiene	ND	0.51	0.11	ND	0.048	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: Method Blank
Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100
ALS Sample ID: P241024-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/24/24
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	Compound Identification	Concentration $\mu\text{g}/\text{m}^3$	Data Qualifier
	TVOC as Toluene	NF	

NF = Compound was searched for, but not found.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 4

Client: [REDACTED]

Client Sample ID: Method Blank

Client Project ID: Bristol VA [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P241029-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/29/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	0.13	ND	0.31	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.54	0.086	ND	0.26	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.55	0.084	ND	0.079	0.012	
75-01-4	Vinyl Chloride	ND	0.53	0.13	ND	0.21	0.051	
106-99-0	1,3-Butadiene	ND	0.53	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.55	0.066	ND	0.21	0.025	
67-64-1	Acetone	ND	5.1	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	0.081	ND	0.091	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.99	0.22	ND	0.40	0.090	
75-35-4	1,1-Dichloroethene	ND	0.45	0.074	ND	0.11	0.019	
75-09-2	Methylene Chloride	ND	0.46	0.15	ND	0.13	0.043	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.45	0.076	ND	0.059	0.0099	
75-15-0	Carbon Disulfide	ND	1.0	0.16	ND	0.33	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.13	ND	0.13	0.033	
75-34-3	1,1-Dichloroethane	ND	0.52	0.11	ND	0.13	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.4	1.2	ND	1.5	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.24	ND	0.35	0.081	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Method Blank

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P241029-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/29/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	2.0	0.76	ND	0.56	0.21	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.21	ND	0.34	0.071	
107-06-2	1,2-Dichloroethane	ND	0.51	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.51	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.52	0.074	ND	0.083	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.54	0.066	ND	0.12	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.14	ND	0.14	0.039	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.19	ND	0.26	0.046	
10061-02-6	trans-1,3-Dichloropropene	ND	0.49	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.55	0.054	ND	0.10	0.0099	
108-88-3	Toluene	ND	0.54	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.0	0.19	ND	0.25	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: Method Blank

Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100

ALS Sample ID: P241029-MB

Test Code: EPA TO-15
 Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
 Analyst: Pruthuvi Heenatigala
 Sample Type: Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/29/24
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.51	0.070	ND	0.060	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
127-18-4	Tetrachloroethene	ND	0.54	0.069	ND	0.080	0.010	
108-90-7	Chlorobenzene	ND	0.54	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.55	0.075	ND	0.13	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.55	0.11	ND	0.053	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.54	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	0.074	ND	0.079	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.52	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	2.1	0.35	ND	0.40	0.068	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.52	0.079	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	0.51	0.13	ND	0.097	0.025	
87-68-3	Hexachlorobutadiene	ND	0.51	0.11	ND	0.048	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: Method Blank
Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100
ALS Sample ID: P241029-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/29/24
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	Compound Identification	Concentration $\mu\text{g}/\text{m}^3$	Data Qualifier
No Compounds Detected			

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: XXXXXXXXXX
Client Sample ID: Method Blank
Client Project ID: Bristol VA XXXXXXXXXX

ALS Project ID: P2404100
ALS Sample ID: P241030-MB

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/30/24
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	ND	0.53	0.13	ND	0.31	0.076	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.52	0.087	ND	0.11	0.018	
74-87-3	Chloromethane	ND	0.54	0.086	ND	0.26	0.042	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.55	0.084	ND	0.079	0.012	
75-01-4	Vinyl Chloride	ND	0.53	0.13	ND	0.21	0.051	
106-99-0	1,3-Butadiene	ND	0.53	0.088	ND	0.24	0.040	
74-83-9	Bromomethane	ND	0.51	0.074	ND	0.13	0.019	
75-00-3	Chloroethane	ND	0.55	0.066	ND	0.21	0.025	
67-64-1	Acetone	ND	5.1	1.2	ND	2.2	0.51	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.51	0.081	ND	0.091	0.014	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.99	0.22	ND	0.40	0.090	
75-35-4	1,1-Dichloroethene	ND	0.45	0.074	ND	0.11	0.019	
75-09-2	Methylene Chloride	ND	0.46	0.15	ND	0.13	0.043	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.45	0.076	ND	0.059	0.0099	
75-15-0	Carbon Disulfide	ND	1.0	0.16	ND	0.33	0.051	
156-60-5	trans-1,2-Dichloroethene	ND	0.53	0.13	ND	0.13	0.033	
75-34-3	1,1-Dichloroethane	ND	0.52	0.11	ND	0.13	0.027	
1634-04-4	Methyl tert-Butyl Ether	ND	0.54	0.063	ND	0.15	0.017	
108-05-4	Vinyl Acetate	ND	5.4	1.2	ND	1.5	0.34	
78-93-3	2-Butanone (MEK)	ND	1.0	0.24	ND	0.35	0.081	
156-59-2	cis-1,2-Dichloroethene	ND	0.52	0.075	ND	0.13	0.019	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Method Blank

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P241030-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/30/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	2.0	0.76	ND	0.56	0.21	
110-54-3	n-Hexane	ND	0.53	0.11	ND	0.15	0.031	
67-66-3	Chloroform	ND	0.54	0.071	ND	0.11	0.015	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.21	ND	0.34	0.071	
107-06-2	1,2-Dichloroethane	ND	0.51	0.059	ND	0.13	0.015	
71-55-6	1,1,1-Trichloroethane	ND	0.52	0.066	ND	0.095	0.012	
71-43-2	Benzene	ND	0.51	0.077	ND	0.16	0.024	
56-23-5	Carbon Tetrachloride	ND	0.52	0.074	ND	0.083	0.012	
110-82-7	Cyclohexane	ND	1.1	0.15	ND	0.32	0.044	
78-87-5	1,2-Dichloropropane	ND	0.54	0.066	ND	0.12	0.014	
75-27-4	Bromodichloromethane	ND	0.53	0.077	ND	0.079	0.011	
79-01-6	Trichloroethene	ND	0.52	0.072	ND	0.097	0.013	
123-91-1	1,4-Dioxane	ND	0.52	0.14	ND	0.14	0.039	
142-82-5	n-Heptane	ND	0.53	0.085	ND	0.13	0.021	
10061-01-5	cis-1,3-Dichloropropene	ND	0.53	0.083	ND	0.12	0.018	
108-10-1	4-Methyl-2-pentanone	ND	1.1	0.19	ND	0.26	0.046	
10061-02-6	trans-1,3-Dichloropropene	ND	0.49	0.11	ND	0.11	0.024	
79-00-5	1,1,2-Trichloroethane	ND	0.55	0.054	ND	0.10	0.0099	
108-88-3	Toluene	ND	0.54	0.065	ND	0.14	0.017	
591-78-6	2-Hexanone	ND	1.0	0.19	ND	0.25	0.046	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]

Client Sample ID: Method Blank

Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

ALS Sample ID: P241030-MB

Test Code: EPA TO-15

Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26

Analyst: Pruthuvi Heenatigala

Sample Type: Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 10/30/24

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.51	0.070	ND	0.060	0.0082	
106-93-4	1,2-Dibromoethane	ND	0.52	0.062	ND	0.068	0.0081	
127-18-4	Tetrachloroethene	ND	0.54	0.069	ND	0.080	0.010	
108-90-7	Chlorobenzene	ND	0.54	0.071	ND	0.12	0.015	
100-41-4	Ethylbenzene	ND	0.55	0.075	ND	0.13	0.017	
179601-23-1	m,p-Xylenes	ND	1.1	0.14	ND	0.25	0.032	
75-25-2	Bromoform	ND	0.55	0.11	ND	0.053	0.011	
100-42-5	Styrene	ND	0.53	0.086	ND	0.12	0.020	
95-47-6	o-Xylene	ND	0.54	0.077	ND	0.12	0.018	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.54	0.074	ND	0.079	0.011	
98-82-8	Cumene	ND	0.52	0.077	ND	0.11	0.016	
622-96-8	4-Ethyltoluene	ND	0.52	0.085	ND	0.11	0.017	
108-67-8	1,3,5-Trimethylbenzene	ND	0.54	0.077	ND	0.11	0.016	
95-63-6	1,2,4-Trimethylbenzene	ND	0.52	0.074	ND	0.11	0.015	
100-44-7	Benzyl Chloride	ND	2.1	0.35	ND	0.40	0.068	
541-73-1	1,3-Dichlorobenzene	ND	0.52	0.080	ND	0.087	0.013	
106-46-7	1,4-Dichlorobenzene	ND	0.52	0.082	ND	0.087	0.014	
95-50-1	1,2-Dichlorobenzene	ND	0.52	0.079	ND	0.087	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.34	ND	0.14	0.046	
91-20-3	Naphthalene	ND	0.51	0.13	ND	0.097	0.025	
87-68-3	Hexachlorobutadiene	ND	0.51	0.11	ND	0.048	0.010	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: [REDACTED]
Client Sample ID: Method Blank
Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100
ALS Sample ID: P241030-MB

Tentatively Identified Compounds

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/30/24
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

GC/MS Retention Time	Compound Identification	Concentration $\mu\text{g}/\text{m}^3$	Data Qualifier
No Compounds Detected			

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: [REDACTED]
Client Project ID: Bristol VA / [REDACTED]

ALS Project ID: P2404100

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala/Chase Griffin
Sample Type: Canister(s)
Test Notes:

Date(s) Collected: 10/1 - 10/2/24
Date(s) Received: 10/8/24
Date(s) Analyzed: 10/24 - 10/30/24

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P241024-MB	101	100	105	70-130	
Method Blank	P241029-MB	101	101	105	70-130	
Method Blank	P241030-MB	99	104	101	70-130	
Lab Control Sample	P241024-LCS	99	100	107	70-130	
Lab Control Sample	P241029-LCS	101	101	107	70-130	
Lab Control Sample	P241030-LCS	98	102	107	70-130	
Duplicate Lab Control Sample	P241024-DLCS	100	101	106	70-130	
Duplicate Lab Control Sample	P241029-DLCS	99	104	105	70-130	
Duplicate Lab Control Sample	P241030-DLCS	101	102	103	70-130	
SW-5U	P2404100-001	104	102	104	70-130	
SW-5L	P2404100-002	102	100	105	70-130	
EW-69	P2404100-003	99	83	86	70-130	
EW-42	P2404100-004	99	87	90	70-130	
EW-86	P2404100-005	97	102	102	70-130	
EW-96	P2404100-006	98	100	100	70-130	
Station 1	P2404100-007	100	102	105	70-130	
Station 2	P2404100-008	101	101	104	70-130	
Station 3	P2404100-009	101	101	106	70-130	
Station 4	P2404100-010	101	99	104	70-130	
Trip Blank	P2404100-011	100	100	104	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
 ALS Sample ID: P241024-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	42.4	35.9	35.6	85	84	50-133	1	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	40.8	37.7	37.9	92	93	66-122	1	25	
74-87-3	Chloromethane	41.6	37.7	38.0	91	91	56-131	0	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	41.6	43.1	43.2	104	104	63-120	0	25	
75-01-4	Vinyl Chloride	42.4	39.1	39.5	92	93	57-129	1	25	
106-99-0	1,3-Butadiene	42.4	39.7	39.6	94	93	62-132	1	25	
74-83-9	Bromomethane	42.0	40.0	40.2	95	96	72-120	1	25	
75-00-3	Chloroethane	42.4	36.3	36.2	86	85	67-123	1	25	
67-64-1	Acetone	212	198	199	93	94	61-120	1	25	
75-69-4	Trichlorofluoromethane (CFC 11)	42.0	40.4	40.8	96	97	65-122	1	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	83.6	78.1	77.5	93	93	59-132	0	25	
75-35-4	1,1-Dichloroethene	41.6	40.0	40.4	96	97	75-120	1	25	
75-09-2	Methylene Chloride	41.6	38.6	39.2	93	94	71-123	1	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	42.0	44.7	45.1	106	107	65-121	0.9	25	
75-15-0	Carbon Disulfide	86.0	86.5	87.1	101	101	69-115	0	25	
156-60-5	trans-1,2-Dichloroethene	43.6	41.0	41.1	94	94	67-123	0	25	
75-34-3	1,1-Dichloroethane	43.2	40.3	40.6	93	94	66-120	1	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	40.3	40.6	93	94	65-124	1	25	
108-05-4	Vinyl Acetate	218	219	220	100	101	76-147	1	25	
78-93-3	2-Butanone (MEK)	82.8	75.3	75.6	91	91	70-125	0	25	
156-59-2	cis-1,2-Dichloroethene	43.2	40.4	41.4	94	96	64-120	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client:	[REDACTED]	
Client Sample ID:	Duplicate Lab Control Sample	ALS Project ID: P2404100
Client Project ID:	Bristol VA / [REDACTED]	ALS Sample ID: P241024-DLCS
Test Code:	EPA TO-15	Date Collected: NA
Instrument ID:	Entech 7200CTS/Agilent 7890B/5977B/MS26	Date Received: NA
Analyst:	Pruthuvi Heenatigala	Date Analyzed: 10/24/24
Sample Type:	Canister	Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:		

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		µg/m³	µg/m³	µg/m³			Limits		Limit	Qualifier
141-78-6	Ethyl Acetate	79.6	72.2	71.7	91	90	56-120	1	25	
110-54-3	n-Hexane	42.4	37.6	38.0	89	90	60-125	1	25	
67-66-3	Chloroform	43.2	41.7	41.8	97	97	64-121	0	25	
109-99-9	Tetrahydrofuran (THF)	80.8	72.5	73.2	90	91	67-117	1	25	
107-06-2	1,2-Dichloroethane	41.2	38.8	39.2	94	95	64-138	1	25	
71-55-6	1,1,1-Trichloroethane	42.0	40.2	40.9	96	97	67-125	1	25	
71-43-2	Benzene	41.2	38.7	39.5	94	96	73-128	2	25	
56-23-5	Carbon Tetrachloride	42.0	39.0	38.9	93	93	71-134	0	25	
110-82-7	Cyclohexane	85.6	82.1	82.6	96	96	71-118	0	25	
78-87-5	1,2-Dichloropropane	42.8	37.5	38.0	88	89	68-121	1	25	
75-27-4	Bromodichloromethane	43.6	41.3	41.2	95	94	70-125	1	25	
79-01-6	Trichloroethene	42.8	40.8	41.2	95	96	68-124	1	25	
123-91-1	1,4-Dioxane	42.8	37.3	38.0	87	89	76-127	2	25	
142-82-5	n-Heptane	42.8	39.3	39.7	92	93	72-121	1	25	
10061-01-5	cis-1,3-Dichloropropene	42.4	38.6	39.1	91	92	87-137	1	25	
108-10-1	4-Methyl-2-pentanone	85.2	75.1	76.8	88	90	67-137	2	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	36.3	36.5	93	93	73-127	0	25	
79-00-5	1,1,2-Trichloroethane	43.2	40.5	41.2	94	95	71-119	1	25	
108-88-3	Toluene	42.8	41.7	42.3	97	99	64-121	2	25	
591-78-6	2-Hexanone	85.2	73.2	74.5	86	87	70-136	1	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
 ALS Sample ID: P241024-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/24/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
124-48-1	Dibromochloromethane	42.8	39.8	40.1	93	94	67-128	1	25	
106-93-4	1,2-Dibromoethane	41.2	38.3	38.8	93	94	69-129	1	25	
127-18-4	Tetrachloroethene	42.8	42.3	43.0	99	100	55-132	1	25	
108-90-7	Chlorobenzene	43.6	41.3	41.3	95	95	63-124	0	25	
100-41-4	Ethylbenzene	43.6	41.3	41.9	95	96	64-119	1	25	
179601-23-1	m,p-Xylenes	86.4	82.0	83.7	95	97	64-121	2	25	
75-25-2	Bromoform	43.6	43.0	43.8	99	100	63-132	1	25	
100-42-5	Styrene	42.8	38.7	39.7	90	93	71-125	3	25	
95-47-6	o-Xylene	43.2	40.5	41.1	94	95	66-122	1	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	40.5	41.7	94	97	71-128	3	25	
98-82-8	Cumene	42.4	40.5	41.4	96	98	66-126	2	25	
622-96-8	4-Ethyltoluene	43.6	41.7	42.3	96	97	67-128	1	25	
108-67-8	1,3,5-Trimethylbenzene	43.6	42.2	42.8	97	98	66-125	1	25	
95-63-6	1,2,4-Trimethylbenzene	42.4	38.9	39.8	92	94	67-130	2	25	
100-44-7	Benzyl Chloride	86.0	82.0	83.8	95	97	58-151	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	40.4	41.5	94	97	57-135	3	25	
106-46-7	1,4-Dichlorobenzene	42.8	39.5	40.7	92	95	56-129	3	25	
95-50-1	1,2-Dichlorobenzene	42.4	39.2	40.1	92	95	57-138	3	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	84.0	86.4	95	98	50-137	3	25	
91-20-3	Naphthalene	44.0	43.9	45.2	100	103	50-157	3	25	
87-68-3	Hexachlorobutadiene	42.8	40.5	41.5	95	97	50-133	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
 ALS Sample ID: P241029-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/30/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	42.4	37.9	35.6	89	84	50-133	6	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	40.8	40.4	38.5	99	94	66-122	5	25	
74-87-3	Chloromethane	41.6	40.8	38.6	98	93	56-131	5	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	41.6	45.5	43.6	109	105	63-120	4	25	
75-01-4	Vinyl Chloride	42.4	42.8	40.8	101	96	57-129	5	25	
106-99-0	1,3-Butadiene	42.4	42.4	40.6	100	96	62-132	4	25	
74-83-9	Bromomethane	42.0	42.9	41.2	102	98	72-120	4	25	
75-00-3	Chloroethane	42.4	39.8	37.2	94	88	67-123	7	25	
67-64-1	Acetone	212	209	196	99	92	61-120	7	25	
75-69-4	Trichlorofluoromethane (CFC 11)	42.0	42.9	40.2	102	96	65-122	6	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	83.6	81.6	76.8	98	92	59-132	6	25	
75-35-4	1,1-Dichloroethene	41.6	43.0	41.2	103	99	75-120	4	25	
75-09-2	Methylene Chloride	41.6	39.8	37.1	96	89	71-123	8	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	42.0	47.5	42.9	113	102	65-121	10	25	
75-15-0	Carbon Disulfide	86.0	93.9	87.4	109	102	69-115	7	25	
156-60-5	trans-1,2-Dichloroethene	43.6	43.8	38.8	100	89	67-123	12	25	
75-34-3	1,1-Dichloroethane	43.2	43.0	40.6	100	94	66-120	6	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	41.4	38.7	96	90	65-124	6	25	
108-05-4	Vinyl Acetate	218	229	215	105	99	76-147	6	25	
78-93-3	2-Butanone (MEK)	82.8	79.1	73.9	96	89	70-125	8	25	
156-59-2	cis-1,2-Dichloroethene	43.2	43.2	41.0	100	95	64-120	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
ALS Sample ID: P241029-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/30/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		µg/m³	µg/m³	µg/m³			Limits		Limit	Qualifier
141-78-6	Ethyl Acetate	79.6	75.9	73.0	95	92	56-120	3	25	
110-54-3	n-Hexane	42.4	39.8	38.0	94	90	60-125	4	25	
67-66-3	Chloroform	43.2	44.9	41.8	104	97	64-121	7	25	
109-99-9	Tetrahydrofuran (THF)	80.8	76.4	72.2	95	89	67-117	7	25	
107-06-2	1,2-Dichloroethane	41.2	41.6	38.0	101	92	64-138	9	25	
71-55-6	1,1,1-Trichloroethane	42.0	41.7	38.9	99	93	67-125	6	25	
71-43-2	Benzene	41.2	41.5	39.5	101	96	73-128	5	25	
56-23-5	Carbon Tetrachloride	42.0	40.3	38.1	96	91	71-134	5	25	
110-82-7	Cyclohexane	85.6	87.3	83.2	102	97	71-118	5	25	
78-87-5	1,2-Dichloropropane	42.8	40.2	38.4	94	90	68-121	4	25	
75-27-4	Bromodichloromethane	43.6	43.1	40.5	99	93	70-125	6	25	
79-01-6	Trichloroethene	42.8	42.2	40.4	99	94	68-124	5	25	
123-91-1	1,4-Dioxane	42.8	38.7	36.4	90	85	76-127	6	25	
142-82-5	n-Heptane	42.8	41.5	40.2	97	94	72-121	3	25	
10061-01-5	cis-1,3-Dichloropropene	42.4	40.1	37.3	95	88	87-137	8	25	
108-10-1	4-Methyl-2-pentanone	85.2	77.7	74.4	91	87	67-137	4	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	36.3	34.1	93	87	73-127	7	25	
79-00-5	1,1,2-Trichloroethane	43.2	42.8	41.2	99	95	71-119	4	25	
108-88-3	Toluene	42.8	43.9	43.2	103	101	64-121	2	25	
591-78-6	2-Hexanone	85.2	75.3	72.4	88	85	70-136	3	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
 ALS Sample ID: P241029-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/30/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
124-48-1	Dibromochloromethane	42.8	41.0	40.2	96	94	67-128	2	25	
106-93-4	1,2-Dibromoethane	41.2	39.3	38.9	95	94	69-129	1	25	
127-18-4	Tetrachloroethene	42.8	43.3	42.6	101	100	55-132	1	25	
108-90-7	Chlorobenzene	43.6	42.9	42.9	98	98	63-124	0	25	
100-41-4	Ethylbenzene	43.6	42.8	41.7	98	96	64-119	2	25	
179601-23-1	m,p-Xylenes	86.4	86.3	83.3	100	96	64-121	4	25	
75-25-2	Bromoform	43.6	43.2	42.1	99	97	63-132	2	25	
100-42-5	Styrene	42.8	39.9	38.7	93	90	71-125	3	25	
95-47-6	o-Xylene	43.2	42.2	40.9	98	95	66-122	3	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	43.6	42.3	101	98	71-128	3	25	
98-82-8	Cumene	42.4	42.7	41.5	101	98	66-126	3	25	
622-96-8	4-Ethyltoluene	43.6	43.5	42.5	100	97	67-128	3	25	
108-67-8	1,3,5-Trimethylbenzene	43.6	43.5	42.3	100	97	66-125	3	25	
95-63-6	1,2,4-Trimethylbenzene	42.4	40.9	39.6	96	93	67-130	3	25	
100-44-7	Benzyl Chloride	86.0	78.3	76.5	91	89	58-151	2	25	
541-73-1	1,3-Dichlorobenzene	42.8	42.6	41.5	100	97	57-135	3	25	
106-46-7	1,4-Dichlorobenzene	42.8	41.4	40.2	97	94	56-129	3	25	
95-50-1	1,2-Dichlorobenzene	42.4	41.1	40.6	97	96	57-138	1	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	87.2	81.9	99	93	50-137	6	25	
91-20-3	Naphthalene	44.0	45.1	42.6	103	97	50-157	6	25	
87-68-3	Hexachlorobutadiene	42.8	42.4	37.6	99	88	50-133	12	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client: XXXXXXXXXX
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: Bristol VA / XXXXXXXXXX

ALS Project ID: P2404100
 ALS Sample ID: P241030-DLCS

Test Code: EPA TO-15
Instrument ID: Entech 7200CTS/Agilent 7890B/5977B/MS26
Analyst: Pruthuvi Heenatigala
Sample Type: Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 10/31/24
Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS µg/m³	LCS µg/m³	DLCS µg/m³	LCS	DLCS	Acceptance Limits			
115-07-1	Propene	42.4	35.7	33.9	84	80	50-133	5	25	
75-71-8	Dichlorodifluoromethane (CFC 12)	40.8	38.3	36.4	94	89	66-122	5	25	
74-87-3	Chloromethane	41.6	39.5	36.4	95	88	56-131	8	25	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	41.6	44.2	40.5	106	97	63-120	9	25	
75-01-4	Vinyl Chloride	42.4	41.7	38.2	98	90	57-129	9	25	
106-99-0	1,3-Butadiene	42.4	40.8	38.1	96	90	62-132	6	25	
74-83-9	Bromomethane	42.0	41.4	38.5	99	92	72-120	7	25	
75-00-3	Chloroethane	42.4	38.4	35.1	91	83	67-123	9	25	
67-64-1	Acetone	212	197	189	93	89	61-120	4	25	
75-69-4	Trichlorofluoromethane (CFC 11)	42.0	40.5	38.8	96	92	65-122	4	25	
67-63-0	2-Propanol (Isopropyl Alcohol)	83.6	76.6	75.8	92	91	59-132	1	25	
75-35-4	1,1-Dichloroethene	41.6	41.1	38.9	99	94	75-120	5	25	
75-09-2	Methylene Chloride	41.6	37.9	36.1	91	87	71-123	4	25	
76-13-1	Trichlorotrifluoroethane (CFC 113)	42.0	43.0	40.4	102	96	65-121	6	25	
75-15-0	Carbon Disulfide	86.0	88.6	83.4	103	97	69-115	6	25	
156-60-5	trans-1,2-Dichloroethene	43.6	41.0	36.8	94	84	67-123	11	25	
75-34-3	1,1-Dichloroethane	43.2	40.5	36.3	94	84	66-120	11	25	
1634-04-4	Methyl tert-Butyl Ether	43.2	38.0	35.1	88	81	65-124	8	25	
108-05-4	Vinyl Acetate	218	213	198	98	91	76-147	7	25	
78-93-3	2-Butanone (MEK)	82.8	73.9	70.8	89	86	70-125	3	25	
156-59-2	cis-1,2-Dichloroethene	43.2	40.9	38.8	95	90	64-120	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client:	[REDACTED]	
Client Sample ID:	Duplicate Lab Control Sample	ALS Project ID: P2404100
Client Project ID:	Bristol VA / [REDACTED]	ALS Sample ID: P241030-DLCS
Test Code:	EPA TO-15	Date Collected: NA
Instrument ID:	Entech 7200CTS/Agilent 7890B/5977B/MS26	Date Received: NA
Analyst:	Pruthuvi Heenatigala	Date Analyzed: 10/31/24
Sample Type:	Canister	Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:		

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		µg/m³	µg/m³	µg/m³			Limits		Limit	Qualifier
141-78-6	Ethyl Acetate	79.6	72.9	68.8	92	86	56-120	7	25	
110-54-3	n-Hexane	42.4	38.1	35.5	90	84	60-125	7	25	
67-66-3	Chloroform	43.2	41.8	40.6	97	94	64-121	3	25	
109-99-9	Tetrahydrofuran (THF)	80.8	72.7	69.6	90	86	67-117	5	25	
107-06-2	1,2-Dichloroethane	41.2	37.6	37.3	91	91	64-138	0	25	
71-55-6	1,1,1-Trichloroethane	42.0	38.3	37.6	91	90	67-125	1	25	
71-43-2	Benzene	41.2	39.6	37.5	96	91	73-128	5	25	
56-23-5	Carbon Tetrachloride	42.0	37.0	36.3	88	86	71-134	2	25	
110-82-7	Cyclohexane	85.6	82.9	79.0	97	92	71-118	5	25	
78-87-5	1,2-Dichloropropane	42.8	39.0	37.1	91	87	68-121	4	25	
75-27-4	Bromodichloromethane	43.6	40.0	39.1	92	90	70-125	2	25	
79-01-6	Trichloroethene	42.8	40.2	37.8	94	88	68-124	7	25	
123-91-1	1,4-Dioxane	42.8	36.6	34.7	86	81	76-127	6	25	
142-82-5	n-Heptane	42.8	39.6	37.6	93	88	72-121	6	25	
10061-01-5	cis-1,3-Dichloropropene	42.4	37.0	35.6	87	84	87-137	4	25	L
108-10-1	4-Methyl-2-pentanone	85.2	73.9	70.1	87	82	67-137	6	25	
10061-02-6	trans-1,3-Dichloropropene	39.2	33.7	33.1	86	84	73-127	2	25	
79-00-5	1,1,2-Trichloroethane	43.2	40.3	38.6	93	89	71-119	4	25	
108-88-3	Toluene	42.8	41.8	40.3	98	94	64-121	4	25	
591-78-6	2-Hexanone	85.2	69.8	68.3	82	80	70-136	2	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
 L = Laboratory control sample recovery outside the specified limits, results may be biased low.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

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Client:	[REDACTED]	
Client Sample ID:	Duplicate Lab Control Sample	ALS Project ID: P2404100
Client Project ID:	Bristol VA / [REDACTED]	ALS Sample ID: P241030-DLCS
Test Code:	EPA TO-15	Date Collected: NA
Instrument ID:	Entech 7200CTS/Agilent 7890B/5977B/MS26	Date Received: NA
Analyst:	Pruthuvi Heenatigala	Date Analyzed: 10/31/24
Sample Type:	Canister	Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:		

CAS #	Compound	Spike Amount	Result		% Recovery		ALS	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	Acceptance			
		µg/m³	µg/m³	µg/m³			Limits		Limit	Qualifier
124-48-1	Dibromochloromethane	42.8	38.7	38.1	90	89	67-128	1	25	
106-93-4	1,2-Dibromoethane	41.2	37.8	36.4	92	88	69-129	4	25	
127-18-4	Tetrachloroethene	42.8	41.6	38.9	97	91	55-132	6	25	
108-90-7	Chlorobenzene	43.6	41.1	39.1	94	90	63-124	4	25	
100-41-4	Ethylbenzene	43.6	40.5	38.8	93	89	64-119	4	25	
179601-23-1	m,p-Xylenes	86.4	81.4	77.7	94	90	64-121	4	25	
75-25-2	Bromoform	43.6	41.2	39.2	94	90	63-132	4	25	
100-42-5	Styrene	42.8	37.7	35.6	88	83	71-125	6	25	
95-47-6	o-Xylene	43.2	40.2	38.1	93	88	66-122	6	25	
79-34-5	1,1,2,2-Tetrachloroethane	43.2	41.8	40.2	97	93	71-128	4	25	
98-82-8	Cumene	42.4	40.7	38.4	96	91	66-126	5	25	
622-96-8	4-Ethyltoluene	43.6	41.3	39.2	95	90	67-128	5	25	
108-67-8	1,3,5-Trimethylbenzene	43.6	41.0	39.1	94	90	66-125	4	25	
95-63-6	1,2,4-Trimethylbenzene	42.4	38.1	36.6	90	86	67-130	5	25	
100-44-7	Benzyl Chloride	86.0	71.7	71.7	83	83	58-151	0	25	
541-73-1	1,3-Dichlorobenzene	42.8	40.3	38.3	94	89	57-135	5	25	
106-46-7	1,4-Dichlorobenzene	42.8	39.5	37.9	92	89	56-129	3	25	
95-50-1	1,2-Dichlorobenzene	42.4	39.0	37.6	92	89	57-138	3	25	
120-82-1	1,2,4-Trichlorobenzene	88.0	78.9	78.0	90	89	50-137	1	25	
91-20-3	Naphthalene	44.0	40.9	39.8	93	90	50-157	3	25	
87-68-3	Hexachlorobutadiene	42.8	35.6	37.1	83	87	50-133	5	25	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.