



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

October 19, 2023

Kevin Summerville
Mahoning County District Board of Health
116 Westchester Drive
Suite C
Austintown, OH 44515
TEL: (330) 270-2841
FAX:
RE: EP

Order No.: 23100838

Dear Kevin Summerville:

Summit Environmental Technologies, Inc. received 6 sample(s) on 10/10/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Holly Florea
Project Manager
3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Workorder
Sample Summary
 WO#: **23100838**
19-Oct-23

CLIENT: Mahoning County District Board of Health
Project: EP

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23100838-001	PW-354		10/7/2023 10:50:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-001	PW-354		10/7/2023 10:50:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-001	PW-354		10/7/2023 10:50:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-001	PW-354		10/7/2023 10:50:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-002	PW-355 Field Blank		10/7/2023 11:30:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-002	PW-355 Field Blank		10/7/2023 11:30:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-002	PW-355 Field Blank		10/7/2023 11:30:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-002	PW-355 Field Blank		10/7/2023 11:30:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-003	PW-355		10/7/2023 11:55:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-003	PW-355		10/7/2023 11:55:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-003	PW-355		10/7/2023 11:55:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-003	PW-355		10/7/2023 11:55:00 AM	10/10/2023 11:35:00 AM	Drinking Water
23100838-004	Trip Blank 1			10/10/2023 11:35:00 AM	Non-Potable Water
23100838-004	Trip Blank 1			10/10/2023 11:35:00 AM	Non-Potable Water
23100838-005	Trip Blank 2			10/10/2023 11:35:00 AM	Non-Potable Water
23100838-005	Trip Blank 2			10/10/2023 11:35:00 AM	Non-Potable Water
23100838-006	Trip Blank 3			10/10/2023 11:35:00 AM	Non-Potable Water
23100838-006	Trip Blank 3			10/10/2023 11:35:00 AM	Non-Potable Water



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Case Narrative

WO#: 23100838
Date: 10/19/2023

CLIENT: Mahoning County District Board of Health
Project: EP

WorkOrder Narrative:

This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

WorkOrder Comments:

23100838: The lab does not routinely spike for 2-Butoxyethanol; this compound is included in the instrument initial calibration and initial calibration verification.

Original



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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 10:50:00 AM
Project: EP
Lab ID: 23100838-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-354

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: SAM
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Anthracene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Benz(a)anthracene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Benzo(a)pyrene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Benzo(b)fluoranthene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Benzo(g,h,i)perylene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Benzo(k)fluoranthene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Chrysene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Dibenz(a,h)anthracene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Fluorene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.976		µg/L	1	10/17/2023 8:28:00 PM
Phenanthrene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Pyrene	ND	0.0976		µg/L	1	10/17/2023 8:28:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	79.0	70 - 130		%Rec	1	10/17/2023 8:28:00 PM
Surr: Benzo(a)pyrene-d12	88.0	70 - 130		%Rec	1	10/17/2023 8:28:00 PM
Surr: Triphenyl phosphite	88.8	70 - 130		%Rec	1	10/17/2023 8:28:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.962		µg/L	1	10/13/2023 5:29:00 PM
2-Butoxyethanol	ND	28.8		µg/L	1	10/13/2023 5:29:00 PM
2-Methylnaphthalene	ND	0.962		µg/L	1	10/13/2023 5:29:00 PM
Acenaphthene	ND	0.962		µg/L	1	10/13/2023 5:29:00 PM
Fluoranthene	ND	0.962		µg/L	1	10/13/2023 5:29:00 PM
Surr: Nitrobenzene-d5	92.3	10 - 130		%Rec	1	10/13/2023 5:29:00 PM
Surr: 2-Fluorobiphenyl	85.1	10 - 130		%Rec	1	10/13/2023 5:29:00 PM
Surr: p-Terphenyl-d14	90.3	20 - 181		%Rec	1	10/13/2023 5:29:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area response
	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	W Sample container temperature is out of limit as specified at testcode	

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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 10:50:00 AM
Project: EP
Lab ID: 23100838-001 **Matrix:** DRINKING WATER
Client Sample ID: PW-354

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 3:57:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.1	70 - 130		%Rec	1	10/11/2023 3:57:00 PM
Surr: 4-Bromofluorobenzene	96.0	70 - 130		%Rec	1	10/11/2023 3:57:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 12:37:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 12:37:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	10/11/2023 12:37:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	10/11/2023 12:37:00 PM
Surr: Toluene-d8	103	70 - 130		%Rec	1	10/11/2023 12:37:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

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(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 11:30:00 AM
Project: EP
Lab ID: 23100838-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-355 Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: SAM
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Anthracene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Benz(a)anthracene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Benzo(a)pyrene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Benzo(b)fluoranthene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Benzo(g,h,i)perylene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Benzo(k)fluoranthene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Chrysene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Dibenz(a,h)anthracene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Fluorene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	1.00		µg/L	1	10/17/2023 9:01:00 PM
Phenanthrene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Pyrene	ND	0.100		µg/L	1	10/17/2023 9:01:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	85.2	70 - 130		%Rec	1	10/17/2023 9:01:00 PM
Surr: Benzo(a)pyrene-d12	86.2	70 - 130		%Rec	1	10/17/2023 9:01:00 PM
Surr: Triphenyl phosphite	89.6	70 - 130		%Rec	1	10/17/2023 9:01:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	10/13/2023 6:01:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	10/13/2023 6:01:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	10/13/2023 6:01:00 PM
Acenaphthene	ND	0.980		µg/L	1	10/13/2023 6:01:00 PM
Fluoranthene	ND	0.980		µg/L	1	10/13/2023 6:01:00 PM
Surr: Nitrobenzene-d5	84.0	10 - 130		%Rec	1	10/13/2023 6:01:00 PM
Surr: 2-Fluorobiphenyl	83.5	10 - 130		%Rec	1	10/13/2023 6:01:00 PM
Surr: p-Terphenyl-d14	89.6	20 - 181		%Rec	1	10/13/2023 6:01:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	M Manual Integration used to determine area response
	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	W Sample container temperature is out of limit as specified at testcode	

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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 11:30:00 AM
Project: EP
Lab ID: 23100838-002 **Matrix:** DRINKING WATER
Client Sample ID: PW-355 Field Blank

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 4:23:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.6	70 - 130		%Rec	1	10/11/2023 4:23:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	10/11/2023 4:23:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 2:13:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 2:13:00 PM
Surr: 4-Bromofluorobenzene	99.7	70 - 130		%Rec	1	10/11/2023 2:13:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	10/11/2023 2:13:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	10/11/2023 2:13:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 11:55:00 AM
Project: EP
Lab ID: 23100838-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-355

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER ORGANIC COMPOUNDS (EPA 525)				E525	525	Analyst: SAM
SYNTHETIC ORGANIC COMPOUNDS BY GC/MS (EPA 525.3)						
Acenaphthylene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Anthracene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Benz(a)anthracene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Benzo(a)pyrene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Benzo(b)fluoranthene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Benzo(g,h,i)perylene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Benzo(k)fluoranthene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Chrysene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Dibenz(a,h)anthracene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Fluorene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.980		µg/L	1	10/17/2023 9:34:00 PM
Phenanthrene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Pyrene	ND	0.0980		µg/L	1	10/17/2023 9:34:00 PM
Surr: 1,3-Dimethyl-2-nitrobenzene	91.0	70 - 130		%Rec	1	10/17/2023 9:34:00 PM
Surr: Benzo(a)pyrene-d12	89.4	70 - 130		%Rec	1	10/17/2023 9:34:00 PM
Surr: Triphenyl phosphate	109	70 - 130		%Rec	1	10/17/2023 9:34:00 PM
SVOC BY SW8270E				SW8270	SW3510C	Analyst: SAM
SVOC BY 8270E						
1-Methylnaphthalene	ND	0.980		µg/L	1	10/13/2023 6:33:00 PM
2-Butoxyethanol	ND	29.4		µg/L	1	10/13/2023 6:33:00 PM
2-Methylnaphthalene	ND	0.980		µg/L	1	10/13/2023 6:33:00 PM
Acenaphthene	ND	0.980		µg/L	1	10/13/2023 6:33:00 PM
Fluoranthene	ND	0.980		µg/L	1	10/13/2023 6:33:00 PM
Surr: Nitrobenzene-d5	85.8	10 - 130		%Rec	1	10/13/2023 6:33:00 PM
Surr: 2-Fluorobiphenyl	82.4	10 - 130		%Rec	1	10/13/2023 6:33:00 PM
Surr: p-Terphenyl-d14	83.9	20 - 181		%Rec	1	10/13/2023 6:33:00 PM
DRINKING WATER VOCs (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:** 10/7/2023 11:55:00 AM
Project: EP
Lab ID: 23100838-003 **Matrix:** DRINKING WATER
Client Sample ID: PW-355

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 4:50:00 PM
Surr: 1,2-Dichlorobenzene-d4	93.7	70 - 130		%Rec	1	10/11/2023 4:50:00 PM
Surr: 4-Bromofluorobenzene	97.2	70 - 130		%Rec	1	10/11/2023 4:50:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 2:37:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 2:37:00 PM
Surr: 4-Bromofluorobenzene	103	70 - 130		%Rec	1	10/11/2023 2:37:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	10/11/2023 2:37:00 PM
Surr: Toluene-d8	105	70 - 130		%Rec	1	10/11/2023 2:37:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

Original



Summit Environmental Technologies, Inc.
 3310 Win St.
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 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:**
Project: EP
Lab ID: 23100838-004 **Matrix:** NON-POTABLE WATER
Client Sample ID: Trip Blank 1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2		Analyst: ALS
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 5:17:00 PM
Surr: 1,2-Dichlorobenzene-d4	88.2	70 - 130		%Rec	1	10/11/2023 5:17:00 PM
Surr: 4-Bromofluorobenzene	96.7	70 - 130		%Rec	1	10/11/2023 5:17:00 PM
VOC ANALYSIS (8260D)				SW8260		Analyst: ZDA
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:01:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:01:00 PM
Surr: 4-Bromofluorobenzene	103	70 - 130		%Rec	1	10/11/2023 3:01:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	10/11/2023 3:01:00 PM
Surr: Toluene-d8	101	70 - 130		%Rec	1	10/11/2023 3:01:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

Original



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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:**
Project: EP
Lab ID: 23100838-005 **Matrix:** NON-POTABLE WATER
Client Sample ID: Trip Blank 2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 5:44:00 PM
Surr: 1,2-Dichlorobenzene-d4	92.1	70 - 130		%Rec	1	10/11/2023 5:44:00 PM
Surr: 4-Bromofluorobenzene	95.5	70 - 130		%Rec	1	10/11/2023 5:44:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:25:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:25:00 PM
Surr: 4-Bromofluorobenzene	99.7	70 - 130		%Rec	1	10/11/2023 3:25:00 PM
Surr: Dibromofluoromethane	103	70 - 130		%Rec	1	10/11/2023 3:25:00 PM
Surr: Toluene-d8	103	70 - 130		%Rec	1	10/11/2023 3:25:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

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Analytical Report

(consolidated)

WO#: 23100838

Date Reported: 10/19/2023

CLIENT: Mahoning County District Board of Health **Collection Date:**
Project: EP
Lab ID: 23100838-006 **Matrix:** NON-POTABLE WATER
Client Sample ID: Trip Blank 3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
DRINKING WATER VOCS (EPA 524.2)				E524.2	Analyst: ALS	
VOC-GC/MS (524.2)						
1,1-Dichloropropene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Benzene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Ethylbenzene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
m,p-Xylene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Naphthalene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
o-Xylene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Toluene	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Vinyl chloride	ND	0.500		µg/L	1	10/11/2023 6:11:00 PM
Surr: 1,2-Dichlorobenzene-d4	94.5	70 - 130		%Rec	1	10/11/2023 6:11:00 PM
Surr: 4-Bromofluorobenzene	99.4	70 - 130		%Rec	1	10/11/2023 6:11:00 PM
VOC ANALYSIS (8260D)				SW8260	Analyst: ZDA	
VOC BY GC/MS (8260D)						
2-Ethylhexyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:49:00 PM
n-Butyl acrylate	ND	5.00		µg/L	1	10/11/2023 3:49:00 PM
Surr: 4-Bromofluorobenzene	101	70 - 130		%Rec	1	10/11/2023 3:49:00 PM
Surr: Dibromofluoromethane	104	70 - 130		%Rec	1	10/11/2023 3:49:00 PM
Surr: Toluene-d8	102	70 - 130		%Rec	1	10/11/2023 3:49:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected	PL	Permit Limit
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	W	Sample container temperature is out of limit as specified at testcode		

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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69508

Sample ID: MB-69508	SampType: MBLK	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: PBW	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657005						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0						
1-Methylnaphthalene	ND	5.00		0	0						
2-Methylnaphthalene	ND	5.00		0	0						
Acenaphthene	ND	5.00		0	0						
Fluoranthene	ND	5.00		0	0						
Surr: 2-Fluorophenol	0.0292		0.05000		58.4	10	130				
Surr: Phenol-d6	0.0189		0.05000		37.8	10	130				
Surr: Nitrobenzene-d5	0.0403		0.05000		80.7	10	130				
Surr: 2,4,6-Tribromophenol	0.0491		0.05000		98.1	19	151				
Surr: 2-Fluorobiphenyl	0.0406		0.05000		81.1	10	130				
Surr: p-Terphenyl-d14	0.0479		0.05000		95.7	20	181				

Sample ID: LCS-69508	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: LCSW	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	30.0		0	0	70	130				
1-Methylnaphthalene	39.7	5.00	40.0	0	99.3	33	130				
2-Methylnaphthalene	39.3	5.00	40.0	0	98.2	32	130				
Acenaphthene	41.5	5.00	40.0	0	104	44	130				
Fluoranthene	44.8	5.00	40.0	0	112	63	130				
Surr: 2-Fluorophenol	0.0334		0.05000		66.9	10	130				
Surr: Phenol-d6	0.0233		0.05000		46.6	10	130				
Surr: Nitrobenzene-d5	0.0426		0.05000		85.1	10	130				
Surr: 2,4,6-Tribromophenol	0.0555		0.05000		111	19	151				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69508

Sample ID: LCS-69508	SampType: LCS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: LCSW	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657006						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2-Fluorobiphenyl	0.0434		0.05000		86.9	10	130				
Surr: p-Terphenyl-d14	0.0455		0.05000		90.9	20	181				

Sample ID: 23100838-001BMS	SampType: MS	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: PW-354	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657007						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

2-Butoxyethanol	ND	28.8		0	0	70	130				
1-Methylnaphthalene	35.6	4.81	38.5	0	92.5	45	130				
2-Methylnaphthalene	35.4	4.81	38.5	0	91.9	42	134				
Acenaphthene	37.1	4.81	38.5	0	96.4	52	128				
Fluoranthene	40.3	4.81	38.5	0	105	61	136				
Surr: 2-Fluorophenol	0.0286		0.04808		59.5	10	130				
Surr: Phenol-d6	0.0193		0.04808		40.1	10	130				
Surr: Nitrobenzene-d5	0.0382		0.04808		79.5	10	130				
Surr: 2,4,6-Tribromophenol	0.0498		0.04808		104	19	151				
Surr: 2-Fluorobiphenyl	0.0382		0.04808		79.5	10	130				
Surr: p-Terphenyl-d14	0.0409		0.04808		85.0	20	181				

Sample ID: 23100838-001BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: PW-354	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69508

Sample ID: 23100838-001BMSD	SampType: MSD	TestCode: SVOC-MSTR	Units: µg/L	Prep Date: 10/12/2023	RunNo: 172711						
Client ID: PW-354	Batch ID: 69508	TestNo: SW8270	SW3510C	Analysis Date: 10/13/2023	SeqNo: 4657008						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butoxyethanol	ND	28.8		0	0	70	130	0	0	30	
1-Methylnaphthalene	36.6	4.81	38.5	0	95.2	45	130	35.6	2.88	30	
2-Methylnaphthalene	36.6	4.81	38.5	0	95.2	42	134	35.4	3.45	30	
Acenaphthene	38.9	4.81	38.5	0	101	52	128	37.1	4.69	30	
Fluoranthene	40.2	4.81	38.5	0	104	61	136	40.3	0.430	30	
Surr: 2-Fluorophenol	0.0283		0.04808		58.8	10	130		0		
Surr: Phenol-d6	0.0191		0.04808		39.8	10	130		0		
Surr: Nitrobenzene-d5	0.0422		0.04808		87.7	10	130		0		
Surr: 2,4,6-Tribromophenol	0.0499		0.04808		104	19	151		0		
Surr: 2-Fluorobiphenyl	0.0437		0.04808		90.9	10	130		0		
Surr: p-Terphenyl-d14	0.0448		0.04808		93.3	20	181		0		

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	M Manual Integration used to determine area response	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits
	W Sample container temperature is out of limit as specified at testcode		

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69610

Sample ID: MB-69610	SampType: MBLK	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892							
Client ID: PBW	Batch ID: 69610	TestNo: E525 525	Analysis Date: 10/17/2023	SeqNo: 4661794							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	ND	0.100									
Anthracene	ND	0.100									
Benz(a)anthracene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									
Benzo(k)fluoranthene	ND	0.100									
Chrysene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Fluorene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	1.00									
Phenanthrene	ND	0.100									
Pyrene	ND	0.100									
Surr: 1,3-Dimethyl-2-nitrobenz...	3.88		5.000		77.6	70	130				
Surr: Benzo(a)pyrene-d12	3.75		5.000		75.0	70	130				
Surr: Triphenyl phosphate	4.03		5.000		80.6	70	130				

Sample ID: LCS-69610	SampType: LCS	TestCode: SVOC_DW(52 Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892							
Client ID: LCSW	Batch ID: 69610	TestNo: E525 525	Analysis Date: 10/17/2023	SeqNo: 4661795							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.86	0.100	5.000	0	97.2	70	130				
Anthracene	5.62	0.100	5.000	0	112	70	130				
Benz(a)anthracene	5.45	0.100	5.000	0	109	70	130				
Benzo(a)pyrene	5.75	0.100	5.000	0	115	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69610

Sample ID: LCS-69610	SampType: LCS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892						
Client ID: LCSW	Batch ID: 69610	TestNo: E525	525	Analysis Date: 10/17/2023	SeqNo: 4661795						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.52	0.100	5.000	0	90.4	70	130				
Benzo(g,h,i)perylene	5.27	0.100	5.000	0	105	70	130				
Benzo(k)fluoranthene	6.01	0.100	5.000	0	120	70	130				
Chrysene	5.67	0.100	5.000	0	113	70	130				
Dibenz(a,h)anthracene	5.47	0.100	5.000	0	109	70	130				
Fluorene	5.00	0.100	5.000	0	100	70	130				
Indeno(1,2,3-cd)pyrene	5.39	1.00	5.000	0	108	70	130				
Phenanthrene	4.54	0.100	5.000	0	90.8	70	130				
Pyrene	5.85	0.100	5.000	0	117	70	130				
Surr: 1,3-Dimethyl-2-nitrobenz...	4.84		5.000		96.8	70	130				
Surr: Benzo(a)pyrene-d12	4.61		5.000		92.2	70	130				
Surr: Triphenyl phosphate	4.87		5.000		97.4	70	130				

Sample ID: 23100914-004AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892						
Client ID: BatchQC	Batch ID: 69610	TestNo: E525	525	Analysis Date: 10/17/2023	SeqNo: 4661801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.93	0.0980	4.902	0	101	70	130				
Anthracene	5.41	0.0980	4.902	0	110	70	130				
Benz(a)anthracene	5.59	0.0980	4.902	0	114	70	130				
Benzo(a)pyrene	5.64	0.0980	4.902	0	115	70	130				
Benzo(b)fluoranthene	4.88	0.0980	4.902	0	99.6	70	130				
Benzo(g,h,i)perylene	5.29	0.0980	4.902	0	108	70	130				
Benzo(k)fluoranthene	5.41	0.0980	4.902	0	110	70	130				
Chrysene	5.30	0.0980	4.902	0	108	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69610

Sample ID: 23100914-004AMS	SampType: MS	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892						
Client ID: BatchQC	Batch ID: 69610	TestNo: E525	525	Analysis Date: 10/17/2023	SeqNo: 4661801						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibenz(a,h)anthracene	5.48	0.0980	4.902	0	112	70	130				
Fluorene	5.04	0.0980	4.902	0	103	70	130				
Indeno(1,2,3-cd)pyrene	5.48	0.980	4.902	0	112	70	130				
Phenanthrene	4.52	0.0980	4.902	0	92.2	70	130				
Pyrene	5.67	0.0980	4.902	0	116	70	130				
Surr: 1,3-Dimethyl-2-nitrobe...	4.77		4.902		97.4	70	130				
Surr: Benzo(a)pyrene-d12	4.53		4.902		92.4	70	130				
Surr: Triphenyl phosphate	4.71		4.902		96.0	70	130				

Sample ID: 23100914-004AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892						
Client ID: BatchQC	Batch ID: 69610	TestNo: E525	525	Analysis Date: 10/17/2023	SeqNo: 4661802						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	4.49	0.0980	4.902	0	91.6	70	130	4.931	9.37	30	
Anthracene	5.23	0.0980	4.902	0	107	70	130	5.412	3.50	30	
Benz(a)anthracene	5.14	0.0980	4.902	0	105	70	130	5.588	8.41	30	
Benzo(a)pyrene	5.27	0.0980	4.902	0	108	70	130	5.637	6.65	30	
Benzo(b)fluoranthene	4.19	0.0980	4.902	0	85.4	70	130	4.882	15.4	30	
Benzo(g,h,i)perylene	4.95	0.0980	4.902	0	101	70	130	5.294	6.70	30	
Benzo(k)fluoranthene	5.40	0.0980	4.902	0	110	70	130	5.412	0.181	30	
Chrysene	5.07	0.0980	4.902	0	103	70	130	5.304	4.54	30	
Dibenz(a,h)anthracene	5.06	0.0980	4.902	0	103	70	130	5.480	8.00	30	
Fluorene	4.61	0.0980	4.902	0	94.0	70	130	5.039	8.94	30	
Indeno(1,2,3-cd)pyrene	5.11	0.980	4.902	0	104	70	130	5.480	7.04	30	
Phenanthrene	4.32	0.0980	4.902	0	88.2	70	130	4.520	4.43	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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 Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: 69610

Sample ID: 23100914-004AMSD	SampType: MSD	TestCode: SVOC_DW(52	Units: µg/L	Prep Date: 10/16/2023	RunNo: 172892						
Client ID: BatchQC	Batch ID: 69610	TestNo: E525	525	Analysis Date: 10/17/2023	SeqNo: 4661802						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyrene	5.48	0.0980	4.902	0	112	70	130	5.667	3.34	30	
Surr: 1,3-Dimethyl-2-nitrobe...	4.19		4.902		85.4	70	130		0	0	
Surr: Benzo(a)pyrene-d12	4.38		4.902		89.4	70	130		0	0	
Surr: Triphenyl phosphate	4.27		4.902		87.2	70	130		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: R172495

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 172495						
Client ID: LCSW	Batch ID: R172495	TestNo: SW8260		Analysis Date: 10/11/2023	SeqNo: 4647738						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	17.7	5.00	20.00	0	88.6	70	130				
n-Butyl acrylate	20.5	5.00	20.00	0	103	70	130				
Surr: 4-Bromofluorobenzene	51.2		50.00		102	70	130				
Surr: Dibromofluoromethane	49.5		50.00		99.1	70	130				
Surr: Toluene-d8	49.7		50.00		99.3	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 172495						
Client ID: PBW	Batch ID: R172495	TestNo: SW8260		Analysis Date: 10/11/2023	SeqNo: 4647741						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	ND	5.00									
n-Butyl acrylate	ND	5.00									
Surr: 4-Bromofluorobenzene	51.1		50.00		102	70	130				
Surr: Dibromofluoromethane	51.7		50.00		103	70	130				
Surr: Toluene-d8	51.3		50.00		103	70	130				

Sample ID: 23100838-001CMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 172495						
Client ID: PW-354	Batch ID: R172495	TestNo: SW8260		Analysis Date: 10/11/2023	SeqNo: 4647743						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	16.9	5.00	20.00	0	84.4	70	130				
n-Butyl acrylate	20.6	5.00	20.00	0	103	70	130				
Surr: 4-Bromofluorobenzene	51.0		50.00		102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: R172495

Sample ID: 23100838-001CMS	SampType: MS	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 172495						
Client ID: PW-354	Batch ID: R172495	TestNo: SW8260	Analysis Date: 10/11/2023	SeqNo: 4647743							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	47.8		50.00		95.7	70	130				
Surr: Toluene-d8	48.9		50.00		97.7	46.1	154				

Sample ID: 23100838-001CMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: µg/L	Prep Date:	RunNo: 172495						
Client ID: PW-354	Batch ID: R172495	TestNo: SW8260	Analysis Date: 10/11/2023	SeqNo: 4647744							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Ethylhexyl acrylate	17.6	5.00	20.00	0	88.1	70	130	16.89	4.25	20	
n-Butyl acrylate	21.4	5.00	20.00	0	107	70	130	20.63	3.78	20	
Surr: 4-Bromofluorobenzene	51.5		50.00		103	70	130		0	20	
Surr: Dibromofluoromethane	48.6		50.00		97.3	70	130		0	20	
Surr: Toluene-d8	49.2		50.00		98.4	46.1	154		0	20	

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: R172549

Sample ID: MB	SampType: MBLK	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 172549							
Client ID: PBW	Batch ID: R172549	TestNo: E524.2	Analysis Date: 10/11/2023	SeqNo: 4650024							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Benzene	ND	0.500									
Ethylbenzene	ND	0.500									
m,p-Xylene	ND	0.500									
Naphthalene	ND	0.500									
o-Xylene	ND	0.500									
Toluene	ND	0.500									
Vinyl chloride	ND	0.500									
Surr: 1,2-Dichlorobenzene-d4	8.87		10.00		88.7	70	130				
Surr: 4-Bromofluorobenzene	9.60		10.00		96.0	70	130				

Sample ID: LCS-R172549	SampType: LCS	TestCode: VOC_DW(524) Units: µg/L	Prep Date:	RunNo: 172549							
Client ID: LCSW	Batch ID: R172549	TestNo: E524.2	Analysis Date: 10/11/2023	SeqNo: 4650025							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	4.69	0.500	5.000	0	93.8	70	130				
1,2,4-Trimethylbenzene	5.15	0.500	5.000	0	103	70	130				
Benzene	4.62	0.500	5.000	0	92.3	70	130				
Ethylbenzene	4.85	0.500	5.000	0	97.1	70	130				
m,p-Xylene	9.98	0.500	10.00	0	99.8	70	130				
Naphthalene	5.41	0.500	5.000	0	108	70	130				
o-Xylene	5.00	0.500	5.000	0	100	70	130				
Toluene	4.83	0.500	5.000	0	96.7	70	130				
Vinyl chloride	4.16	0.500	5.000	0	83.3	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode				

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: R172549

Sample ID: LCS-R172549	SampType: LCS	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 172549						
Client ID: LCSW	Batch ID: R172549	TestNo: E524.2		Analysis Date: 10/11/2023	SeqNo: 4650025						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,2-Dichlorobenzene-d4	10.3		10.00		103	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130				

Sample ID: 23100838-001DMS	SampType: MS	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 172549						
Client ID: PW-354	Batch ID: R172549	TestNo: E524.2		Analysis Date: 10/11/2023	SeqNo: 4650026						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1-Dichloropropene	5.40	0.500	5.000	0	108	70	130				
1,2,4-Trimethylbenzene	5.63	0.500	5.000	0	113	70	130				
Benzene	5.17	0.500	5.000	0	103	70	130				
Ethylbenzene	5.35	0.500	5.000	0	107	70	130				
m,p-Xylene	11.4	0.500	10.00	0	114	70	130				
Naphthalene	5.53	0.500	5.000	0	111	70	130				
o-Xylene	5.53	0.500	5.000	0	111	70	130				
Toluene	5.28	0.500	5.000	0	106	70	130				
Vinyl chloride	4.74	0.500	5.000	0	94.9	70	130				
Surr: 1,2-Dichlorobenzene-d4	10.2		10.00		102	70	130				
Surr: 4-Bromofluorobenzene	10.2		10.00		102	70	130				

Sample ID: 23100838-001DMSD	SampType: MSD	TestCode: VOC_DW(524)	Units: µg/L	Prep Date:	RunNo: 172549						
Client ID: PW-354	Batch ID: R172549	TestNo: E524.2		Analysis Date: 10/11/2023	SeqNo: 4650027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	M Manual Integration used to determine area response	ND Not Detected	PL Permit Limit
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits
	W Sample container temperature is out of limit as specified at testcode		

Original



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QC SUMMARY REPORT

WO#: 23100838
 19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

BatchID: R172549

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloropropene	5.16	0.500	5.000	0	103	70	130	5.399	4.49	25	
1,2,4-Trimethylbenzene	5.31	0.500	5.000	0	106	70	130	5.631	5.92	25	
Benzene	4.93	0.500	5.000	0	98.6	70	130	5.166	4.63	25	
Ethylbenzene	5.13	0.500	5.000	0	103	70	130	5.346	4.08	25	
m,p-Xylene	10.5	0.500	10.00	0	105	70	130	11.35	7.81	25	
Naphthalene	5.20	0.500	5.000	0	104	70	130	5.528	6.11	25	
o-Xylene	5.15	0.500	5.000	0	103	70	130	5.532	7.13	25	
Toluene	5.10	0.500	5.000	0	102	70	130	5.282	3.53	25	
Vinyl chloride	4.42	0.500	5.000	0	88.4	70	130	4.743	7.03	25	
Surr: 1,2-Dichlorobenzene-d4	9.52		10.00		95.2	70	130		0	25	
Surr: 4-Bromofluorobenzene	9.70		10.00		97.0	70	130		0	25	

Qualifiers:
 B Analyte detected in the associated Method Blank
 M Manual Integration used to determine area response
 R RPD outside accepted recovery limits
 W Sample container temperature is out of limit as specified at testcode

E Value above quantitation range
 ND Not Detected
 RL Reporting Detection Limit

H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



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DATES REPORT

WO#: **23100838**
19-Oct-23

Client: Mahoning County District Board of Health
Project: EP

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23100838-001A	PW-354	10/7/2023 10:50:00 AM	Drinking Water	Synthetic Organic Compounds by GC/I (EPA 525.3)		10/16/2023 8:30:00 AM	10/17/2023 8:28:00 PM
23100838-001B				SVOC by 8270E		10/12/2023 11:50:00 A	10/13/2023 5:29:00 PM
23100838-001C				VOC by GC/MS (8260D)			10/11/2023 12:37:00 PM
23100838-001D				VOC-GC/MS (524.2)			10/11/2023 3:57:00 PM
23100838-002A	PW-355 Field Blank	10/7/2023 11:30:00 AM		Synthetic Organic Compounds by GC/I (EPA 525.3)		10/16/2023 8:30:00 AM	10/17/2023 9:01:00 PM
23100838-002B				SVOC by 8270E		10/12/2023 11:50:00 A	10/13/2023 6:01:00 PM
23100838-002C				VOC by GC/MS (8260D)			10/11/2023 2:13:00 PM
23100838-002D				VOC-GC/MS (524.2)			10/11/2023 4:23:00 PM
23100838-003A	PW-355	10/7/2023 11:55:00 AM		Synthetic Organic Compounds by GC/I (EPA 525.3)		10/16/2023 8:30:00 AM	10/17/2023 9:34:00 PM
23100838-003B				SVOC by 8270E		10/12/2023 11:50:00 A	10/13/2023 6:33:00 PM
23100838-003C				VOC by GC/MS (8260D)			10/11/2023 2:37:00 PM
23100838-003D				VOC-GC/MS (524.2)			10/11/2023 4:50:00 PM
23100838-004A	Trip Blank 1		Non-Potable Water	VOC by GC/MS (8260D)			10/11/2023 3:01:00 PM
23100838-004B				VOC-GC/MS (524.2)			10/11/2023 5:17:00 PM
23100838-005A	Trip Blank 2			VOC by GC/MS (8260D)			10/11/2023 3:25:00 PM
23100838-005B				VOC-GC/MS (524.2)			10/11/2023 5:44:00 PM
23100838-006A	Trip Blank 3			VOC by GC/MS (8260D)			10/11/2023 3:49:00 PM
23100838-006B				VOC-GC/MS (524.2)			10/11/2023 6:11:00 PM

Original

DC-QACOC338 Rev. 4.3



SUMMIT
ENVIRONMENTAL TECHNOLOGIES, INC.
23110 Win Sweer
Cuyahoga Falls, Ohio 44223
800-278-0140

Analysis Request / Chain of Custody

Refer to Terms and Conditions at www.settek.com

SET
WO NO.: **23100838**
For Summit Environmental Technologies, Inc. use only

Client Name: [Redacted]		Project Identification: [Redacted]									
Client Phone: 330-424-0272		Report to: CCHD									
Collect Person: Kevin Summerville		PO #: [Redacted]									
Client Email Address: [Redacted]		Fidelity ID: [Redacted]									
Client Address: 4590 W. The Woodlands - Westfield, OH 43081		PWS ID: PW-355									
Sampling Point Name and Provider Signature: Kevin Summerville		Reporting/Accreditation Requirements: <input type="checkbox"/> Ohio EPA Pb, Cu <input type="checkbox"/> Drinking Water Compliance <input type="checkbox"/> Other Compliance (List State/Program):									
Sign: [Signature]		For DW only, results to be reported to state by 10/17/19, lab fee may apply: <input type="checkbox"/> Y <input type="checkbox"/> N									
#	Sample Point ID	Sample Identification	Date Collected	Time Collected	Grab Sample	Composite Sample	Matrix S = Solid, SL = Sludge, L = Liquid, O = Oil, A = Air, NPW = Non-Portable Water, DW = Drinking Water	Preservation: 1) HNO3; 2) H2SO4; 3) HCl; 4) Zinc Acetate; 5) NaOH; 6) KDA; 7) none; 8) other (specify in comments)	Number of Containers per Sample	Notes / Comments:	For DW Only: Special Compliance or Routine (S/R)
	PW-355	Field Blank	10/16/19	1130	✓		L		8		
	PW-355	Reservoir Tank Spigt	10/16/19	1155	✓		DW		10	524 8270 525.2 8260	
Notes / Comments: 524-HCl, 8260-HCl, 525.2 - unknown											
Sufficient volume provided to run QC? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Cooler? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO											
Received Temp.: °C Ice Present? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO MELTED											
Rush Requested: _____ Day(s) Must be approved by Lab Manager											
Carrier: SET											
Relinquished by: [Signature] Date: 10/16/19 Time: 807											
Received at Summit by: [Signature] Date: 10/16/19 Time: 1135											

3.4 to 1 = 3.7
4.1 to 1 = 4.2
3.8 to 1 = 3.9



Summit Environmental Technologies, Inc.
 3310 Win St.
 Cuyahoga Falls, Ohio 44223
 TEL: (330) 253-8211 FAX: (330) 253-4489
 Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: **MAH-OH-44515**

Work Order Number: **23100838**

RcptNo: **1**

Logged by:	Christina N. Gemma	10/10/2023 11:35:00 AM	
Completed By:	Christina N. Gemma	10/10/2023 3:53:09 PM	
Reviewed By:	Holly Florea	10/11/2023 8:33:32 AM	

Chain of Custody

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

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 Custody seals intact on shipping container/cooler? Yes No Not Present
 No. Seal Date: Signed By:
 5. Was an attempt made to cool the samples? Yes No NA
 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
 7. Sample(s) in proper container(s)? Yes No
 8. Sufficient sample volume for indicated test(s)? Yes No
 9. Are samples (except VOA and ONG) properly preserved? Yes No
 10. Was preservative added to bottles? Yes No NA
 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes No No VOA Vials
 12. Were any sample containers received broken? Yes No
 13. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 14. Are matrices correctly identified on Chain of Custody? Yes No
 15. Is it clear what analyses were requested? Yes No
 16. Were all holding times able to be met? Yes No
 (If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Not Present			
2	3.9	Good	Not Present			
3	4.2	Good	Not Present			