



Analytical Laboratory Report

Report ID: S59840.01(01)
Generated on 03/18/2024

Report to

Attention: Kristin Peterson
Environmental Resource Group
3125 Sovereign Drive, Suite 9B
Lansing, MI 48911

Phone: 517-256-4048 FAX:
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Additional Contacts: John Kemp

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Report Summary

Lab Sample ID(s): S59840.01-S59840.06
Project: 230029-005 (Hiawatha)
Collected Date(s): 03/15/2024
Submitted Date/Time: 03/15/2024 08:35
Sampled by: Kristin Peterson
P.O. #:

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Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the

FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report



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Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



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Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
SW3015A	SW 846 Method 3015A Revision 1 February 2007



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Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59840.01	Room 30 - Shubel Near door (01) - Kiddrgarden	Drinking Water	03/15/24 06:33
S59840.02	(02) - Room 120 - Davis	Drinking Water	03/15/24 06:36
S59840.03	(03) - Room 320 - Garvey	Drinking Water	03/15/24 06:40
S59840.04	(04) bottle fill Near rr 3 - (Door 4) wing	Drinking Water	03/15/24 06:43
S59840.05	(05) Small sink - Kitchen Near large sink	Drinking Water	03/15/24 06:44
S59840.06	(06) - Room 420 - Parsons (10 wing)	Drinking Water	03/15/24 06:46



Analytical Laboratory Report

Lab Sample ID: S59840.01

Sample Tag: Room 30 - Shubel Near door (01) - Kiddrgarden

Collected Date/Time: 03/15/2024 06:33

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals

Method: E200.8, Run Date: 03/18/24 16:11, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



Analytical Laboratory Report

Lab Sample ID: S59840.02

Sample Tag: (02) - Room 120 - Davis

Collected Date/Time: 03/15/2024 06:36

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals

Method: E200.8, Run Date: 03/18/24 16:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



Analytical Laboratory Report

Lab Sample ID: S59840.03

Sample Tag: (03) - Room 320 - Garvey

Collected Date/Time: 03/15/2024 06:40

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals

Method: E200.8, Run Date: 03/18/24 16:12, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.004	0.001		mg/L	2	7439-92-1		0.015



Analytical Laboratory Report

Lab Sample ID: S59840.04

Sample Tag: (04) bottle fill Near rr 3 - (Door 4) wing

Collected Date/Time: 03/15/2024 06:43

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals**Method: E200.8, Run Date: 03/18/24 16:13, Analyst: CCM**

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



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Lab Sample ID: S59840.05

Sample Tag: (05) Small sink - Kitchen Near large sink

Collected Date/Time: 03/15/2024 06:44

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals

Method: E200.8, Run Date: 03/18/24 16:14, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	Not detected	0.001		mg/L	2	7439-92-1		0.015



Analytical Laboratory Report

Lab Sample ID: S59840.06

Sample Tag: (06) - Room 420 - Parsons (10 wing)

Collected Date/Time: 03/15/2024 06:46

Matrix: Drinking Water

COC Reference: 161967

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	RT	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/18/24 15:00	CCM	

Metals

Method: E200.8, Run Date: 03/18/24 16:14, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.002	0.001		mg/L	2	7439-92-1		0.015

Merit Laboratories Login Checklist

Lab Set ID:S59840

Client:ERG (Environmental Resource Group)

Project: 230029-005 (Hiawatha)

Submitted:03/15/2024 08:35 Login User: MMC

Attention: Kristin Peterson

Address: Environmental Resource Group
3125 Sovereign Drive, Suite 9B
Lansing, MI 48911

Phone: 517-256-4048 FAX:

Email: Kristin.Peterson@ergrp.net

Selection	Description	Note
Sample Receiving		
01.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samples are received at 4C +/- 2C Thermometer # RT
02.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Received on ice/ cooling process begun
03.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples shipped
04.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples left in 24 hr. drop box
05.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Are there custody seals/tape or is the drop box locked
Chain of Custody		
06.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC adequately filled out
07.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	COC signed and relinquished to the lab
08.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sample tag on bottles match COC
09.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Subcontracting needed? Subcontracted to:
Preservation		
10.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Do sample have correct chemical preservation
11.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Completed pH checks on preserved samples? (no VOAs)
12.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Did any samples need to be preserved in the lab?
Bottle Conditions		
13.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All bottles intact
14.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Appropriate analytical bottles are used
15.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Merit bottles used
16.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Sufficient sample volume received
17.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Samples require laboratory filtration
18.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Samples submitted within holding time
19.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Do water VOC or TOX bottles contain headspace

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

Merit Laboratories Bottle Preservation Check

Lab Set ID: S59840 Submitted: 03/15/2024 08:35

Client: ERG (Environmental Resource Group)

Project: 230029-005 (Hiawatha)

Initial Preservation Check: 03/15/2024 08:46 MMC

Preservation Recheck (E200.8): N/A

Attention: Kristin Peterson

Address: Environmental Resource Group
3125 Sovereign Drive, Suite 9B
Lansing, MI 48911

Phone: 517-256-4048 FAX:

Email: Kristin.Peterson@ergp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S59840.01	1L Plastic HNO3	<2			
S59840.02	1L Plastic HNO3	<2			
S59840.03	1L Plastic HNO3	<2			
S59840.04	1L Plastic HNO3	<2			
S59840.05	1L Plastic HNO3	<2			
S59840.06	1L Plastic HNO3	<2			



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C.O.C. PAGE # 1 OF 1

161967

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Kristin Peterson
 COMPANY: ERG
 ADDRESS: 3125 Sovereign Dr, Suite 9B
 CITY: Lansing STATE: Mi ZIP CODE: 48911
 PHONE NO.: 517-256-4048 CELL NO.: _____ P.O. NO.: _____
 E-MAIL ADDRESS: Kristin.peterson@ergp.net QUOTE NO.: _____

CONTACT NAME: _____ SAME
 COMPANY: Accounting
 ADDRESS: 2800.3 center Oaks Ct, suite 106
 CITY: Wixom STATE: Mi ZIP CODE: 48393
 PHONE NO.: 248-773-7986 E-MAIL ADDRESS: accounting@ergp.net

PROJECT NO./NAME: 230029-005 (Hiawatha) SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kristin Peterson
 TURNAROUND TIME REQUIRED: 1 DAY 2 DAYS 3 DAYS STANDARD OTHER _____
 DELIVERABLES REQUIRED: STD LEVEL II LEVEL III LEVEL IV EDD OTHER _____

MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID
 CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIFE A=AIR WS=WASTE

Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	COLLECTION		SAMPLE TAG. IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives								Lead	Special Instructions
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER			
59840.01	3/15/24	6:33	Room 20 - Shubel Near door (01) - Kid's garden		1			X					X	1st Draw	
.02		6:36	(02) - Room 120 - Davis		1			X					X		
.03		6:40	(03) - Room 320 - Garvey		1			X					X		
.04		6:43	(04) bottle fill near r 3 - (Door 4) wing		1			X					X		
.05		6:44	(05) small sink - Kitchen Near large sink		1			X					X		
.06		6:46	(06) - Room 420 - Peterson (10 wing)		1			X					X		

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other _____

RELINQUISHED BY: _____ DATE: 3/15/24 TIME: 7:30
 SIGNATURE/ORGANIZATION: [Signature] ERG Sampler
 RECEIVED BY: _____ DATE: 3/15/24 TIME: 0835
 SIGNATURE/ORGANIZATION: [Signature] Murray
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____
 SIGNATURE/ORGANIZATION: _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 SEAL NO. SEAL INTACT YES NO INITIALS _____
 NOTES: _____ TEMP. ON ARRIVAL: RT

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



PROJECT NUMBER 230029-0005 (Hiawatha)

DATE: 3/18/2024

PROJECT Hiawatha Elementary School

SAMPLED BY Kristin Peterson

CLIENT Okemos Public Schools

ANALYZED BY Merit

WATER SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results
01	L	Room 30- Shubel Kidergarden, sink near door	6:33	ND
02	L	Room 120-Davis, at entry	6:36	ND
03	L	Room 320-Garvey	6:40	4 ppb
04	L	Bottle fille near Restroom , door 4 wing	6:43	ND
05	L	Kitchen-small sink-near large sink	6:44	ND
06	L	Room 420-Parsons-door 10 wing	6:46	2 ppb

ppb=Parts per billion
ND = Not detected

SAMPLE TYPES: L-Lead in water