

Report ID: S59995.01(01) Generated on 03/21/2024

Report to

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

Lansing, MI 48911

Phone: 517-256-4048 FAX: Email: Kristin.Peterson@ergrp.net

Addtional Contacts: John Kemp

Report Summary

Lab Sample ID(s): S59995.01-S59995.12 Project: 230029-005 (Okemos High School)

Collected Date(s): 03/20/2024

Submitted Date/Time: 03/20/2024 09:24

Sampled by: Kristin Peterson

P.O. #:

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Naya Mushah



#### **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



### **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
В	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
Н	Sample submitted and run outside of holding time
1	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
0	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
Υ	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
е	Reported value estimated due to interference
j	Analyte also found in associated method blank
р	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



### **Method Summary**

Method Version

E200.8 EPA Method 200.8 Revision 5.4

SW3015A SW 846 Method 3015A Revision 1 February 2007

Report to Environmental Resource Group Project: 230029-005 (Okemos High School) Page 4 of 17

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### Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S59995.01	(01) Kitchen Sink Near door Near Coffee Machines	Drinking Water	03/20/24 06:09
S59995.02	(02) bottle fill Near Cafeteria door	<b>Drinking Water</b>	03/20/24 06:13
S59995.03	(03) A103	<b>Drinking Water</b>	03/20/24 06:17
S59995.04	(04) A101	<b>Drinking Water</b>	03/20/24 06:19
S59995.05	(05) A105 Sink across from door 1st draw	<b>Drinking Water</b>	03/20/24 06:21
S59995.06	(06) A105 Sink across from door - 2nd draw	<b>Drinking Water</b>	03/20/24 06:22
S59995.07	(07) - C225 - back sink	<b>Drinking Water</b>	03/20/24 06:28
S59995.08	(08) - C124 - back sink	<b>Drinking Water</b>	03/20/24 06:30
S59995.09	(09) D135 tech - sink near entry	<b>Drinking Water</b>	03/20/24 06:33
S59995.10	(10) Main office restroom	<b>Drinking Water</b>	03/20/24 06:37
S59995.11	(11) 2D Art Studio	<b>Drinking Water</b>	03/20/24 06:40
S59995.12	(12) Women's locker room - middle sink	Drinking Water	03/20/24 06:44



Lab Sample ID: S59995.01

Sample Tag: (01) Kitchen Sink Near door Near Coffee Machines

Collected Date/Time: 03/20/2024 06:09

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:22, Analyst: CCM

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



Lab Sample ID: S59995.02

Sample Tag: (02) bottle fill Near Cafeteria door Collected Date/Time: 03/20/2024 06:13

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:23, Analyst: CCM

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



Lab Sample ID: S59995.03

Sample Tag: (03) A103

Collected Date/Time: 03/20/2024 06:17

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:23, Analyst: CCM

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



Lab Sample ID: S59995.04

Sample Tag: (04) A101

Collected Date/Time: 03/20/2024 06:19

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:24, Analyst: CCM

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



Lab Sample ID: S59995.05

Sample Tag: (05) A105 Sink across from door 1st draw

Collected Date/Time: 03/20/2024 06:21

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:25, 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: S59995.06

Sample Tag: (06) A105 Sink across from door - 2nd draw

Collected Date/Time: 03/20/2024 06:22

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

### Metals

Method: E200.8, Run Date: 03/21/24 13:33, Analyst: CCM

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



Lab Sample ID: S59995.07

Sample Tag: (07) - C225 - back sink Collected Date/Time: 03/20/2024 06:28

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:34, Analyst: CCM

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



Lab Sample ID: S59995.08

Sample Tag: (08) - C124 - back sink Collected Date/Time: 03/20/2024 06:30

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:34, Analyst: CCM

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
Lead	0.005	0.001		ma/l	2	7439-92-1		0.015



Lab Sample ID: S59995.09

Sample Tag: (09) D135 tech - sink near entry Collected Date/Time: 03/20/2024 06:33

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:35, Analyst: CCM

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



Lab Sample ID: S59995.10

Sample Tag: (10) Main office restroom Collected Date/Time: 03/20/2024 06:37

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:26, Analyst: CCM

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



Lab Sample ID: S59995.11

Sample Tag: (11) 2D Art Studio

Collected Date/Time: 03/20/2024 06:40

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	Туре	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:36, Analyst: CCM

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



Lab Sample ID: S59995.12

Sample Tag: (12) Women's locker room - middle sink

Collected Date/Time: 03/20/2024 06:44

Matrix: Drinking Water COC Reference: 168137

Sample Containers

#	туре	Preservative(s)	Retrigerated?	Arrival Temp. (C)	i nermometer #
1	1L Plastic	HNO3	No	18.9	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Metal Digestion	Completed	SW3015A	03/21/24 12:00	CCM	

#### Metals

Method: E200.8, Run Date: 03/21/24 13:36, Analyst: CCM

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

### **Merit Laboratories Login Checklist**

Lab Set ID:S59995

Client: ERG (Environmental Resource Group) Project: 230029-005 (Okemos High School) Submitted: 03/20/2024 09:24 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 Recei	ving			
01. Yes	X No	□ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 18.9
02. Yes	X No	□ N/A	Received on ice/ cooling process begun	
03. Yes	X No	□ N/A	Samples shipped	
04. Yes	X No	N/A	Samples left in 24 hr. drop box	
05. Yes	No	X N/A	Are there custody seals/tape or is the drop box locked	
Chain of Cust	ody			
06. <b>X</b> Yes	No	□ N/A	COC adequately filled out	
07. <b>X</b> Yes	No	□ N/A	COC signed and relinquished to the lab	
08. <b>X</b> Yes	No	N/A	Sample tag on bottles match COC	
09. Yes	X No	N/A	Subcontracting needed? Subcontacted to:	
Preservation				
10. <b>X</b> Yes	No	□ N/A	Do sample have correct chemical preservation	
11. <b>X</b> Yes	No	N/A	Completed pH checks on preserved samples? (no VOAs)	
12. Yes	X No	N/A	Did any samples need to be preserved in the lab?	
Bottle Conditi	ons			
13. <b>X</b> Yes	No	□ N/A	All bottles intact	
14. <b>X</b> Yes	No	□ N/A	Appropriate analytical bottles are used	
15. <b>X</b> Yes	No	N/A	Merit bottles used	
16. <b>X</b> Yes	No	□ N/A	Sufficient sample volume received	
17. Yes	X No	N/A	Samples require laboratory filtration	
18. <b>X</b> Yes	No	N/A	Samples submitted within holding time	
19. Yes	No	X N/A	Do water VOC or TOX bottles contain headspace	

Corrective action for all exceptions is to ca	all the client and to notify the project manager.
Client Review By:	Date:

### **Merit Laboratories Bottle Preservation Check**

Lab Set ID: S59995 Submitted: 03/20/2024 09:24

Client: ERG (Environmental Resource Group)

Project: 230029-005 (Okemos High School)

Initial Preservation Check: 03/20/2024 09:45 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@ergrp.net

Sample ID	Bottle / Preservation	pH (Orig)	Add ml	pH (New)	Notes
S59995.01	1L Plastic HNO3	<2			
S59995.02	1L Plastic HNO3	<2			
S59995.03	1L Plastic HNO3	<2			
S59995.04	1L Plastic HNO3	<2			
S59995.05	1L Plastic HNO3	<2			
S59995.06	1L Plastic HNO3	<2			
S59995.07	1L Plastic HNO3	<2			
S59995.08	1L Plastic HNO3	<2			
S59995.09	1L Plastic HNO3	<2			
S59995.10	1L Plastic HNO3	<2			
S59995.11	1L Plastic HNO3	<2			
S59995.12	1L Plastic HNO3	<2			

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C.O.C. PAGE # OF \	168137
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REPORT TO Laboratories, Inc. CHAIN OF CUS	TODY RECORD		INVOICE TO
CONTACT NAME Kristin Peterson	CONTACT NAME Accounting		SAME
COMPANY FR G	COMPANY ERI-	USSN 25 Sa Fig.	
3125 Sovereign Dr., Suite B	ADDRESS 28003 Center Oal	Ks Ct. Suite 101	,
Lansing Hagil	MoxiM		M; 48393
517- 256-4048	PHONE NO. 773 - 7986 CA	AIL ADDRESS	p. net
E-MAIL ADDRESS  Kristin. peterson@ergrp.nct  QUOTE NO.	ANALYSIS (ATT	TACH LIST IF MORE SPACE	IS REQUIRED)
PROJECT NO./NAME  230029-005 (OKernos Itigh School) SAMPLER(S) - PLEASE PRINT/SIGN NAME  Kristin Peterson TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS STANDARD OTHER	ed & Rel		Certifications  □ OHIO VAP
DELIVERABLES REQUIRED STD LEVEL II LEVEL III LEVEL IV DEDD OTHER		1	Project Locations
MATRIX W=WATER GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID CODE: SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR WS=WASTE	# Containers & Preservatives		☐ Detroit ☐ New York
MERIT COLLECTION SAMPLE TAG.  LAB NO. FOR LAB USE ONLY DATE TIME IDENTIFICATION-DESCRIPTION # 8	Preservatives NaOH HOO NAOH HO		☐ Other Special Instructions
59995.61 3/20/24 6:09 (01) Kitchen sink Near door	X		Section 1
.OZ 1 6:13 (O2) bottle fill near catetala 11	X	, II II	r -1, ji 1
.03 6:17 (03) A 103	X		The state of the s
OH 6:19 (04) A 101	×	in pir ko za con	] F k
.05 (:21 (05) A105 sinkacross framdor 1	X	Company of the contract of the	, , , , , , , , , , , , , , , , , , , ,
D6 6:22 (06) A105 SINK across from	X	1 000 100 100 100	1 00 1 01 D L 2
07 6:28 (07) - C225 - back siNL 1	X	18901	erin a falket en et .
08 6:30 (08) - CIZY - back sink	X		18 223 Z0122 1 10 30 1 1
.09 (:33 (09) DI35 tech - sink war	X	- 12 12	
.10 6:37 (10) Main office restroom	X		
11 6:40 (11) 20 Art studio	X		71
12 1, 6:44 women's locker room - middle	X	- Swell si figure	
RELINQUISHED BY: SIGNATURE/ORGANIZATION THE SIGNATURE SIGN	RELINQUISHED BY: SIGNATURE/ORGANIZATION	7 17 18	DATE TIME
RECEIVED BY: SIGNATURE/ORGANIZATION Johanna Murray 3/20/24 000	RECEIVED BY: SIGNATURE/ORGANIZATION	A BELLEVILLE PARTY OF THE PARTY	DATE TIME
RELINQUISHED BY: DATE TIME SIGNATURE/ORGANIZATION	SEAL NO. SEAL INTACT YES NO	INITIALS NOTES:	TEMP. ON ARRIVAL
RECEIVED BY: DATE TIME SIGNATURE/ORGANIZATION	SEAL NO. SEAL INTACT YES NO NO	INITIALS	18.9



PROJECT NUMBER	230029-0005 (High School)	DATE:	3/20/2024	
PROJECT	Okemos High School	SAMPLED BY	Kristin Peterson	
CLIENT	Okemos Public Schools	ANALYZED RY	Merit	

### WATER SAMPLE DATA SHEET

SAMPLE#	TYPE	DESCRIPTION	TIME ON	Results
			6:09	
01	L	Kitchen sink next to door near coffee machine		2 ppb
			6:13	
02	L	Bottle fill Cafeteria near door		ND
			6:17	
03	L	A 103		2 ppb
			6:19	
04	L	A 101		ND
			6:21	
05	L	A 105-sink across from door- 1st draw		ND
			6:22	
06	L	A 105-sink across from door-2nd draw		ND
			6:28	
07	L	C225 back sink		4 ppb
			6:30	
08	L	C 124 back sink		5 ppb
			6:33	
09	L	D 135 tech sink near entry		ND
			6:37	
10	L	Main Office Restroom		ND

SAMPLE TYPES:

L-Lead in water

ppb=Parts per billion
ND = Not detected



PROJECT NUMBER	230029-0005 (High School)	_ DATE: _	3/20/2024	
PROJECT	Okemos High School	SAMPLED BY	Kristin Peterson	
CLIENT	Okemos Public Schools	- ANALYZED BY	Merit	

### WATER SAMPLE DATA SHEET

SAMPLE #	TYPE	DESCRIPTION	TIME ON	Results
			6:40	
11	L	2D Art Studio		1 ppb
12	L	Women's Locker Room middle sink	6:44	ND

SAMPLE TYPES:

L-Lead in water

ppb=Parts per billion
ND = Not detected