PETROLEUM MANAGEMENT, INC.

Environmental Services Division

2138 Priest Bridge Ct., Suite 200 ♦ Crofton, Maryland 21114
Phone: (410) 354-0200 ♦ Fax: (410) 721-1390

November 22, 2019

Maryland Department of the Environment
Oil Control Program
Attn: Susan Bull
1800 Washington Blvd., Suite 620
Baltimore, MD 21230-1719

RE: Wiley H. Bates Middle School
701 Chase St., Annapolis
MDE Facility ID# 3200
MDE Case# 18-0559-AA

2nd Quarterly Sampling Report
4th Quarter 2019

Dear Ms. Bull,

In accordance with the MDE directives, a second quarterly monitoring well sampling event was completed at the site on November 7, 2019. Each monitoring well available at the site was gauged with an electronic oil/water interface probe to detect any accumulation of Liquid Phase Hydrocarbons (LPH) or Free Product. At the time of this monitoring event, LPH was detected in MW-1, MW-2 and MW-3 and as such, these wells were excluded from any further purging or sampling.

After gauging and in the absence of any LPH, each well was purged with a submersible low-flow pump on Nov. 6, 2019 by removing a total of three (3) well volumes of water, per gauging calculations. Purged groundwater was transferred to containment drums for removal and disposal (PMI manifest #22849). After allowing groundwater in each well to recover to pre-purge levels, sampling from each well was completed on Nov. 7, 2019.

Groundwater samples were collected using pre-packaged, single-use disposable bailers and placed in laboratory provided glassware for analysis of TPH-DRO, TPH-GRO (EPA method 8015c) and Total VOC (EPA method 8260b) as directed. Samples were placed in a cooler with ice for transport to the lab facility under appropriate chain of custody. Historic and current groundwater analysis results are summarized as follows with complete laboratory reports attached.

MW-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-1	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	***LPH present, no sampling this quarter. Well target of EFR activity.**							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

MW-2: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-2	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	***LPH present, no sampling this quarter. Well target of EFR activity.**							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

MW-3: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-3	8/7/19	*LPH present, no sampling this quarter. Well target of EFR activity.							
	11/7/19	***LPH present, no sampling this quarter. Well target of EFR activity.**							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

MW-4: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-4	8/7/19	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-5: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-5	8/7/19	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <230**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-6: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-6	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-7: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-7	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-8: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-8	8/7/19	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MW-10: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-10	8/7/19	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-1	8/7/19	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-2: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-2	8/7/19	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

MDE-3: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MDE-3	8/7/19	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	**ND <100**	**ND <220**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

TF-1: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
TF-1	8/8/19	ND <100	860	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	3.3
	11/7/19	***Well purged dry with no recharge; no water present to sample**							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

TF-2: Analytical Results Summary

Well ID	Sample Date	TPH-GRO ug/L	TPH-DRO ug/L	*Volatile Organic Compounds ug/L					
				Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
TF-2	8/8/19	ND <100	940	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
(MW-9)	**11/7/19**	***Well purged dry with no recharge; no water present to sample**							
MDE Clean-up Std. (Type I & II Aquifers)		47	47	5.0	1000	700	10000	20	0.17

ND= Not Detected at or above the method reporting limit.

Upon review and comparison of the quarter gauging and sampling results for the first two quarterly sampling events performed in the 3rd and 4th quarters of 2019, there has been no observed migration of LPH from the immediate areas of MW-1, MW-2 and MW-3. These three wells are currently under weekly EFR activity. Additionally, there has been no detected migration of dissolved-phase contaminants to the surrounding and down-gradient well locations. A complete laboratory results report for the 4th quarter 2019 sampling event along with well gauging forms and site plan of monitoring well locations is attached for review. As directed by MDE, a third quarterly sampling event will be scheduled on or about February 10, 2020.

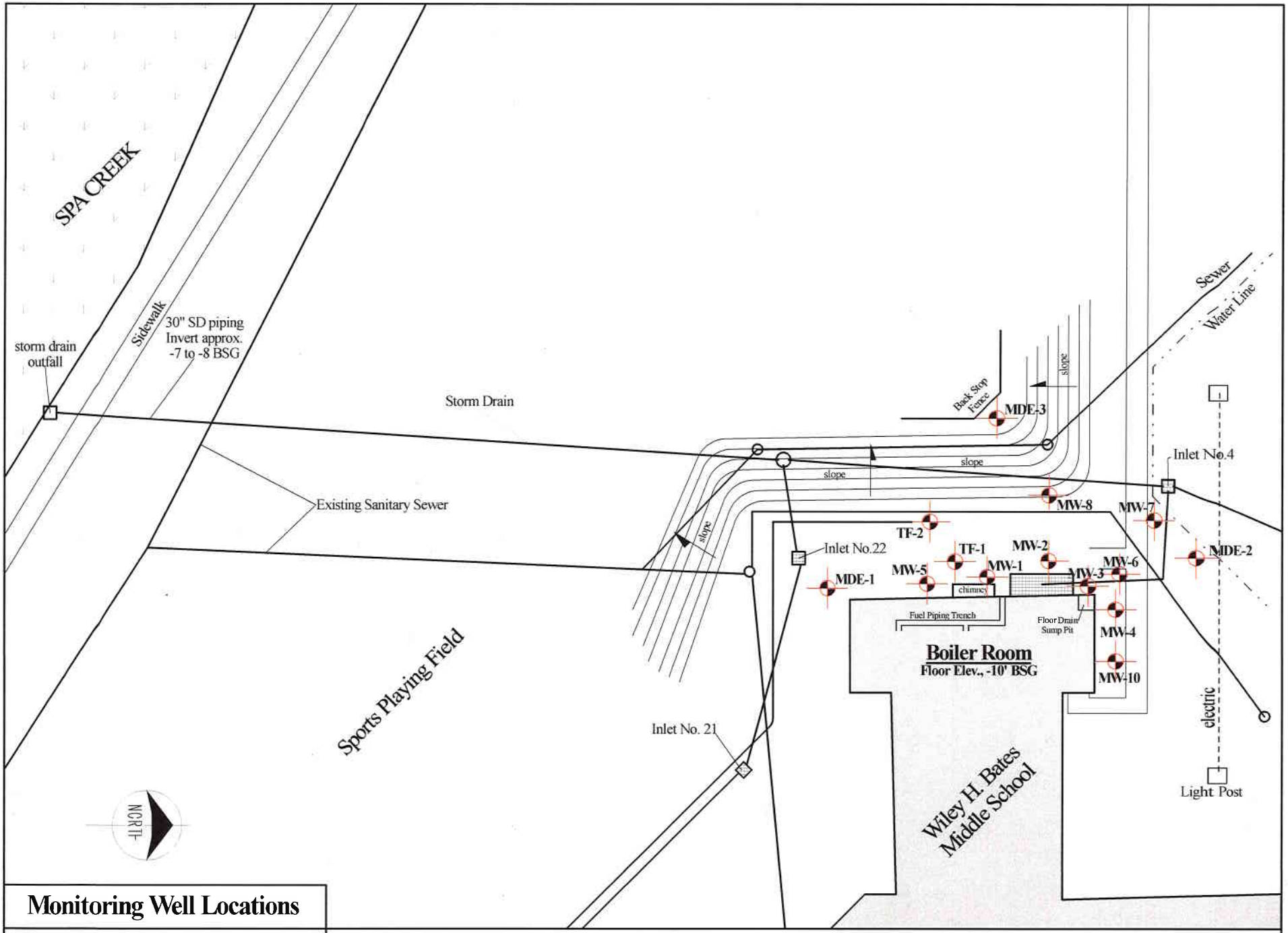
Please contact our office with any questions or concerns.

Respectfully submitted,

W. Scott Alexander
Environmental Projects Manager

Enc.

cc: *Mr. Christopher Williams*
Environmental Issues Program Manager
Anne Arundel County Public Schools
9034 Fort Smallwood Rd.
Pasadena, MD 21122



Monitoring Well Locations					
Petroleum Management, Inc. 5218 Curtis Avenue Curtis Bay, MD 21226 410-354-0200	**Job Name:**	Wiley H. Bates Middle School - Corrective Action Plan			
	Location:	701 Chase Street, Annapolis, MD 21401			
	Drawn By: WSA	**Scale:** 1" = 50'		**Date:** Aug. 2019	

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 12:40 Well Dia: 4.0"

Depth to Liquid: 16.85'
Depth to Water: 18.56
Free Product: 1.71' (1.15 gallons)
Liquid Volume: _____ (x3)

Well Depth: _____
Liquid Depth: 1.71' LPH
Gallons/Foot: .67

* Post-EFR

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____
Purge Volume (3x liquid volume): _____
Purge Method: Submersible Pump
Comments: _____

Purge Rate: _____
Purge Time: _____

SAMPLING: Date: _____ Time: _____

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: LPH present, No purge, No sample

GAUGED BY: Wes Ecker / S. Alexander

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 12:43 Well Dia: 4.0"

Depth to Liquid: 15.02
Depth to Water: 15.54
Free Product: 0.35 gallons
Liquid Volume: _____ (x3)

Well Depth: _____
Liquid Depth: 0.52' LPH
Gallons/Foot: .67

* Post-EFR

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____
Purge Volume (3x liquid volume): _____
Purge Method: Submersible Pump
Comments: _____

Purge Rate: _____
Purge Time: _____

SAMPLING: Date: _____ Time: _____

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: LPH present, No purge, No sample

GAUGED BY: Wes Ecker / S. Alexander

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-3
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 12:47 Well Dia: 4.0"

Depth to Liquid: 15.06
Depth to Water: 15.08
Free Product: 0.013 gal.
Liquid Volume: _____ (x3)

Well Depth: _____
Liquid Depth: 0.02' LPH
Gallons/Foot: _____

* Post-EFR

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: _____ Start Time: _____ End Time: _____

Liquid Volume: _____
Purge Volume (3x liquid volume): _____
Purge Method: Submersible Pump
Comments: _____

Purge Rate: _____
Purge Time: _____

SAMPLING: Date: _____ Time: _____

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: LPH present, No purge, No sample

GAUGED BY: Wes Ecker / S. Alexander

SAMPLED BY: _____

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-4
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 7:44 Well Dia: 4.0"

Depth to Liquid: 13.52
Depth to Water: 13.52
Free Product: 0.00
Liquid Volume: 10.82 (x3)

Well Depth: 29.67
Liquid Depth: 16.15
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 10:43 End Time: 11:01

Liquid Volume: 10.82
Purge Volume (3x liquid volume): 32.46
Purge Method: Submersible Pump
Comments: purge ≈ 35 gallons

Purge Rate: 1.80
Purge Time: 0:18

SAMPLING: Date: 11-7-19 Time: 10:08

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retained w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-5
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 12:03 Well Dia: 4.0"

Depth to Liquid: 18.49
Depth to Water: 18.49
Free Product: 0.00
Liquid Volume: 7.76 (x3)

Well Depth: 30.08
Liquid Depth: 11.59
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 12:09 End Time: 12:23

Liquid Volume: 7.76
Purge Volume (3x liquid volume): 23.30
Purge Method: Submersible Pump

Purge Rate: 1.66
Purge Time: 14 MIN

Comments: purge ≈25 gallons

SAMPLING: Date: 11-7-19 Time: 10:48

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retained w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-6
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 7:47 Well Dia: 4.0"

Depth to Liquid: 12.55
Depth to Water: 12.55
Free Product: 0.00
Liquid Volume: 11.52 (x3)

Well Depth: 29.75
Liquid Depth: 17.20
Gallons/Foot: ~~11.52~~ 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 11:05 End Time: 11:21

Liquid Volume: 11.52
Purge Volume (3x liquid volume): 34.57
Purge Method: Submersible Pump
Comments: purge ≈ 35 gallons

Purge Rate: 2.16
Purge Time: 0:16

SAMPLING: Date: 11-7-19 Time: 10:22

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retained w/ disposable bailer

GAUGED BY: Wes Eckes

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-7
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 9:35 Well Dia: 4.0"

Depth to Liquid: 12.19
Depth to Water: 12.19
Free Product: 0
Liquid Volume: 11.71 (x3)

Well Depth: 29.67
Liquid Depth: 17.48
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 9:42 End Time: 9:59

Liquid Volume: 11.71
Purge Volume (3x liquid volume): 35.13
Purge Method: Submersible Pump
Comments: Purge ~ 36 gallons

Purge Rate: 2.12
Purge Time: 0:17

SAMPLING: Date: 11-7-19 Time: 9:42

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retrieved w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-8
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 7:50 Well Dia: 4.0"

Depth to Liquid: 16.36
Depth to Water: 16.36
Free Product: 0.00
Liquid Volume: 9.14 (x3)

Well Depth: 30.00
Liquid Depth: 13.64
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 11:25 End Time: 11:38

Liquid Volume: 9.14
Purge Volume (3x liquid volume): 27.42
Purge Method: Submersible Pump

Purge Rate: 2.11
Purge Time: 0:13

Comments: purge ≈ 30 gallons

SAMPLING: Date: 11-7-19 Time: 10:37

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retained w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MW-10
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 7:41 Well Dia: 4.0"

Depth to Liquid: 11.10
Depth to Water: 11.10
Free Product: 0.00
Liquid Volume: 12.78 (x3)

Well Depth: 30.17
Liquid Depth: 19.07
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 10:23 End Time: 10:40

Liquid Volume: 12.78
Purge Volume (3x liquid volume): 38.33
Purge Method: Submersible Pump

Purge Rate: 2.25
Purge Time: 0:17

Comments: purge 40 gallons

SAMPLING: Date: 11-7-19 Time: 9:55

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Samples retained w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE - 1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 11:45 Well Dia: 4.0"

Depth to Liquid: 17.89
Depth to Water: 17.89
Free Product: 0.00
Liquid Volume: 8.06 (x3)

Well Depth: 29.92
Liquid Depth: 12.03
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 11:50 End Time: 12:04

Liquid Volume: 8.06
Purge Volume (3x liquid volume): 24.18
Purge Method: Submersible Pump
Comments: purge ≈ 25 gallons

Purge Rate: 1.72
Purge Time: 14 mins

SAMPLING: Date: 11-7-19 Time: 10:58

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Samples retained w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: _____ Well Dia: 4.0"

Depth to Liquid: 11.26
Depth to Water: 11.26
Free Product: 0.00
Liquid Volume: 12.30 (x3)

Well Depth: 29.71'
Liquid Depth: 18.45
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 10:04 End Time: 10:19

Liquid Volume: 12.30
Purge Volume (3x liquid volume): 37.08
Purge Method: Submersible Pump
Comments: purge 40 gallons

Purge Rate: 2.47
Purge Time: 0:15

SAMPLING: Date: 11-7-19 Time: 9:21

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: Sample retrieved w/ disposable bailer

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: MDE-3
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 08:56 Well Dia: 4.0"

Depth to Liquid: 2.15'
Depth to Water: 2.15'
Free Product: 0
Liquid Volume: 16.84 gal (x3)

Well Depth: 27.29'
Liquid Depth: 25.14'
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf (4" dia. = 0.67 gpf) 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 9:03 End Time: 9:23

Liquid Volume: 16.84
Purge Volume (3x liquid volume): 50.52
Purge Method: Submersible Pump

Purge Rate: 2.6 gpm
Purge Time: 20 min

Comments: purge ~52 gallons

SAMPLING: Date: 11-7-19 Time: 9:06

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

COMMENTS: ~~Geopump to retain samples~~ - Disposable Bailer to retain sample

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: TF-1
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 12:10 Well Dia: 4.0"

Depth to Liquid: 13.85'
Depth to Water: 13.85
Free Product: 0.00
Liquid Volume: 0.15 (x3)

Well Depth: 14.00
Liquid Depth:
Gallons/Foot:

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11/6/19 Start Time: 12:27 End Time: 12:29

Liquid Volume: .15
Purge Volume (3x liquid volume): .45
Purge Method: Submersible Pump

Purge Rate:
Purge Time:

Comments: PURGED DRY IMMEDIATELY. LESS THAN .15 GALLONS

SAMPLING: Date: 11-7-19 Time: 11:10

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC
~~Use Geopump to retain samples.~~

N/A

No recharge since purge on 11-6-19
No Water to Sample

COMMENTS: No water in TF-1 to sample

GAUGED BY: Wes Ecker

SAMPLED BY: S. Alexander

MONITORING WELL SAMPLING FORM

Project Name: Bates Middle School
Project #: MDE Case# 18-0559-AA
Well Condition: New Construction (7/2019)

Well #: TF-2
Gauging Method: Interface Probe
Measure Reference: 0.01'

GAUGING: Date: 11-6-19 Time: 7:52 Well Dia: 4.0"

Depth to Liquid: ~~19.35~~ 18.50
Depth to Water: ~~19.35~~ 18.50
Free Product: 0.00
Liquid Volume: 0.56 (x3)

Well Depth: 19.33
Liquid Depth: 0.83
Gallons/Foot: 0.67

1" dia. = 0.04 gpf 2" dia. = 0.16 gpf 3" dia. = 0.37 gpf 4" dia. = 0.67 gpf 6" dia. = 1.47 gpf

PURGING: Date: 11-6-19 Start Time: 11:44 End Time: 11:45

Liquid Volume: 0.56
Purge Volume (3x liquid volume): 1.67
Purge Method: Submersible Pump

Purge Rate: 1.67
Purge Time: 0:01

Comments: purge ≈ 1 gallon dry

SAMPLING: Date: 11-7-19 Time: 11:08

Sample Type: Groundwater
Sample Container Type: (1) Amber Liter, (2) 40 ml VOA
Number of Samples Collected: 3
Preservative: 1+1 HCL
Analytical Parameters: TPH-DRO, TPH-GRO, Total VOC

N/A

No recharge since purge on 11-6-19
No water to sample

COMMENTS: No water in TF-2 to sample

GAUGED BY: Wes Ecker

SAMPLED BY: N/A

Petroleum Management, Inc.

MD. Oil Operation Permit No: 2011-OPT-38311
EPA Identification NO: MDR000525278
Federal ID NO: 42-2014536

5218 Curtis Avenue ♦ Baltimore, Maryland 21226 ♦ Phone 410-354-0200 ♦ Fax 410-721-1390

Bill of Lading/Manifest No. 22849

Generator/Shipper: Anne Arundel County Public Schools (AACPS)			**Billing Name:** Anne Arundel County Public Schools (AACPS)		
Site Address: 701 Chase Ave			**Address:** 9034 Ft Smallwood Rd		
City: Annapolis	**State:** MD	**Zip:** 21401	**City:** Pasadena	**State:** MD	**Zip:** 21122
Phone: 410-562-0138	**Contact:** Jim Perpley		**Phone:** 443-770-5911	**Contact:** Jim Perpley	

Purchase Order No:

MATERIAL CHARACTERIZATION (CHECK ALL THAT APPLY):

Description:	Gallons	Description:	Gallons	Description:	Gallons
Gasoline, 3, UN1203,PGIII		Hazardous Waste, Liquid, 9 NA3082, PGIII		JP#4	
#2 fuel Oil, 3, NA1993, PGIII		Hazardous Waste, Solid, 9 NA3077, PGIII		JP#5	
#4 fuel Oil, 3 NA1993, PGIII		Paint Thinners, 3, UN1263, PGI		Jet A	
#6 fuel Oil, 3, NA1993, PGIII		Ethylene Glycol, 9, UN3082, PGIII		Sludge	
Diesel, 3, NA1993 PGIII		Lube Oil		Petroleum Contaminated Water	1050.84
Flammable Liquids, NOS, 3, UN1993, PGI		Waste Oil		Other	
Corrosive Liquids, NOS, 3, UN1760, PGII		Kerosene		Other	
No of Drums:		No. of Tanks:		Other	
Scale Weights (Soil): Total: (Tons)		Tare: (Tons)		Net: (Tons)	

Service Description : Complete scheduled EFR at mw-1, Mw-2, Mw-3. Also, pump out drums of purge water from well gauging. recover total of 232 gallons purge water, 768.84 from EFR. Total 24.73 gallons LPH

PLACARDS TENDERED ☐ **YES** ■ **NO** | **EMERGENCY CONTACT (410) 354-0200**

Generator/Shipper Certification Statement

As the generator or shipper, I hereby certify that this material is properly classified and does not contain Polychlorinated Biphenyls (PCB'S). To the best of my knowledge it has not been mixed, combined or blended in any amount with any other material defined as hazardous waste under applicable law. Generator/Shipper agrees to indemnify and hold Petroleum Management, Inc. harmless for any damages arising from or in any way relating to a breach of this Certification Statement.

X **Generator/Shipper Authorized Agent (Print)** Scott Alexander | **Date Of Services** 11/6/19

X **Generator/Shipper Authorized Agent (Signature)** Scott Alexander

HAULER/CARRIER INFORMATION

Co. Name Petroleum Management, Inc.			**Driver Name (print)** Frederick Hughes
Street 5218 Curtis Avenue			**Driver Signature**
City Baltimore	**State** MD	**Zip** 21226	**Phone** +14438420505

The above mentioned materials have been received by this facility and will be handled in accordance with all applicable rules and regulations. All quantities are subject to final verification by this facility and are indicated in far right box.

RECEIVING FACILITY ACCEPTANCE

Facility Name PMI

Acceptance Signature

Phone 410-354-0200 | **Total Quantity Received** 1050.84

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

14 November 2019

Scott Alexander
Petroleum Management, Inc.
2138 Priest Bridge Ct., STE 10
Crofton, MD 21114-2450
RE: Bates Middle School

Enclosed are the results of analyses for samples received by the laboratory on 11/07/19 13:54.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MDE-1		9110728-01	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MDE-2		9110728-02	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MDE-3		9110728-03	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-4		9110728-04	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-5		9110728-05	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-6		9110728-06	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-7		9110728-07	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-8		9110728-08	Nonpotable Water	11/07/19 00:00	11/07/19 13:54
MW-10		9110728-09	Nonpotable Water	11/07/19 00:00	11/07/19 13:54

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-1

9110728-01 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 18:38	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 18:38	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 18:38	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 18:38	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 18:38	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 18:38	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 18:38	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-1

9110728-01 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 18:38	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 18:38	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 18:38	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 18:38	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-1

9110728-01 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 18:38	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*108 %*	*11/08/19*		*11/08/19 18:38*		
Surrogate: Toluene-d8			*75-120*	*117 %*	*11/08/19*		*11/08/19 18:38*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*103 %*	*11/08/19*		*11/08/19 18:38*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 19:43	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/08/19 21:46	SJA
Surrogate: o-Terphenyl			*60-120*	*79 %*	*11/08/19*		*11/08/19 21:46*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-2

9110728-02 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:03	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 19:03	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:03	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 19:03	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:03	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:03	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:03	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-2

9110728-02 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (contin									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:03	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:03	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:03	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 19:03	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-2

9110728-02 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:03	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*107 %*	*11/08/19*		*11/08/19 19:03*		
Surrogate: Toluene-d8			*75-120*	*95 %*	*11/08/19*		*11/08/19 19:03*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*90 %*	*11/08/19*		*11/08/19 19:03*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 20:20	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/08/19 22:12	SJA
Surrogate: o-Terphenyl			*60-120*	*70 %*	*11/08/19*		*11/08/19 22:12*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-3

9110728-03 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:29	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 19:29	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:29	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 19:29	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:29	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:29	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:29	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-3

9110728-03 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:29	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:29	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:29	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 19:29	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MDE-3

9110728-03 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:29	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*110 %*	*11/08/19*		*11/08/19 19:29*		
Surrogate: Toluene-d8			*75-120*	*95 %*	*11/08/19*		*11/08/19 19:29*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*89 %*	*11/08/19*		*11/08/19 19:29*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 20:57	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/08/19 22:39	SJA
Surrogate: o-Terphenyl			*60-120*	*83 %*	*11/08/19*		*11/08/19 22:39*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-4

9110728-04 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:54	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 19:54	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:54	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 19:54	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:54	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:54	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 19:54	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-4

9110728-04 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:54	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:54	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 19:54	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 19:54	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-4

9110728-04 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 19:54	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*11/08/19*		*11/08/19 19:54*		
Surrogate: Toluene-d8			*75-120*	*106 %*	*11/08/19*		*11/08/19 19:54*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*86 %*	*11/08/19*		*11/08/19 19:54*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 21:34	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/08/19 23:06	SJA
Surrogate: o-Terphenyl			*60-120*	*83 %*	*11/08/19*		*11/08/19 23:06*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-5

9110728-05 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:19	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 20:19	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:19	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 20:19	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:19	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:19	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:19	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-5

9110728-05 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:19	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:19	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:19	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 20:19	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-5

9110728-05 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:19	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*112 %*	*11/08/19*		*11/08/19 20:19*		
Surrogate: Toluene-d8			*75-120*	*110 %*	*11/08/19*		*11/08/19 20:19*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*97 %*	*11/08/19*		*11/08/19 20:19*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 22:12	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.23	0.23	1	11/08/19	11/08/19 23:32	SJA
Surrogate: o-Terphenyl			*60-120*	*80 %*	*11/08/19*		*11/08/19 23:32*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-6

9110728-06 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:45	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 20:45	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:45	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 20:45	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:45	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:45	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 20:45	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-6

9110728-06 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:45	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:45	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 20:45	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 20:45	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-6

9110728-06 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 20:45	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*112 %*	*11/08/19*		*11/08/19 20:45*		
Surrogate: Toluene-d8			*75-120*	*118 %*	*11/08/19*		*11/08/19 20:45*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*93 %*	*11/08/19*		*11/08/19 20:45*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 22:49	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/08/19 23:59	SJA
Surrogate: o-Terphenyl			*60-120*	*82 %*	*11/08/19*		*11/08/19 23:59*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St, Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-7

9110728-07 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:10	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 21:10	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:10	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 21:10	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:10	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:10	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:10	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-7

9110728-07 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:10	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:10	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:10	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 21:10	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-7

9110728-07 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (contin									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:10	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*109 %*	*11/08/19*		*11/08/19 21:10*		
Surrogate: Toluene-d8			*75-120*	*119 %*	*11/08/19*		*11/08/19 21:10*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*105 %*	*11/08/19*		*11/08/19 21:10*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/07/19	11/07/19 23:26	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/09/19 00:25	SJA
Surrogate: o-Terphenyl			*60-120*	*82 %*	*11/08/19*		*11/09/19 00:25*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-8

9110728-08 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:36	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/08/19	11/08/19 21:36	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Benzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:36	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/08/19	11/08/19 21:36	GM
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:36	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:36	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/08/19	11/08/19 21:36	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-8

9110728-08 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:36	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:36	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/08/19	11/08/19 21:36	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/08/19	11/08/19 21:36	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Styrene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Toluene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-8

9110728-08 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/08/19	11/08/19 21:36	GM
Surrogate: 1,2-Dichloroethane-d4		*75-120*		*115 %*	*11/08/19*		*11/08/19 21:36*		
Surrogate: Toluene-d8		*75-120*		*104 %*	*11/08/19*		*11/08/19 21:36*		
Surrogate: 4-Bromofluorobenzene		*78-110*		*93 %*	*11/08/19*		*11/08/19 21:36*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/08/19	11/08/19 00:03	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/09/19 00:52	SJA
Surrogate: o-Terphenyl		*60-120*		*87 %*	*11/08/19*		*11/09/19 00:52*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-10

9110728-09 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	**24.0**		ug/L	10.0	10.0	1	11/11/19	11/11/19 21:47	GM
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/11/19	11/11/19 21:47	GM
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Benzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Bromobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Bromoform	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Bromomethane	ND		ug/L	5.0	5.0	1	11/11/19	11/11/19 21:47	GM
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/11/19	11/11/19 21:47	GM
2-Butanone (MEK)	**10.3**		ug/L	10.0	10.0	1	11/11/19	11/11/19 21:47	GM
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Chloroethane	ND		ug/L	5.0	5.0	1	11/11/19	11/11/19 21:47	GM
Chloroform	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Chloromethane	ND		ug/L	5.0	5.0	1	11/11/19	11/11/19 21:47	GM
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Dibromomethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-10

9110728-09 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (conti									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
2-Hexanone	ND		ug/L	10.0	10.0	1	11/11/19	11/11/19 21:47	GM
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/11/19	11/11/19 21:47	GM
Methylene chloride	ND		ug/L	10.0	10.0	1	11/11/19	11/11/19 21:47	GM
Naphthalene	ND		ug/L	2.0	2.0	1	11/11/19	11/11/19 21:47	GM
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Styrene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Toluene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Trichloroethene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

MW-10

9110728-09 (Nonpotable Water)
Sample Date: 11/07/19

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
VOLATILE ORGANICS BY EPA METHOD 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (contin									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
o-Xylene	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/11/19	11/11/19 21:47	GM
Surrogate: 1,2-Dichloroethane-d4			*75-120*	*116 %*	*11/11/19*		*11/11/19 21:47*		
Surrogate: Toluene-d8			*75-120*	*109 %*	*11/11/19*		*11/11/19 21:47*		
Surrogate: 4-Bromofluorobenzene			*78-110*	*98 %*	*11/11/19*		*11/11/19 21:47*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	100	1	11/08/19	11/08/19 00:40	GM
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics	ND		mg/L	0.22	0.22	1	11/08/19	11/09/19 01:18	SJA
Surrogate: o-Terphenyl			*60-120*	*77 %*	*11/08/19*		*11/09/19 01:18*		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Analytical Results

Project: Bates Middle School

Project Number: 701 Chase St. Annapolis, MD
Project Manager: Scott Alexander

Reported:
11/14/19 15:02

Notes and Definitions

J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accreditation

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

CHAIN-OF-CUSTODY RECORD

Company Name: Petroleum Mgmt. Inc.
Project Manager: Bates Middle School
Project Name: Scott Alexander
Project ID: Annapolis, MD
Sampler(s): S. Alexander
P.O. Number: Facility ID#3200

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (non-potable water) PW (potable water)

Analysis Requested

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-DRO (8015)	TPH-GRO (8015)	Total VOC (8260)	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
MDE-1	11/7/19		X			W	X	X	X	1+1 HCL		9110728-01
MDE-2			X			W						-02
MDE-3			X			W						-03
MW-4			X			W						-04
MW-5			X			W						-05
MW-6			X			W						-06
MW-7			X			W						-07
MW-8			X			W						-08
MW-10			X			W						-09

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Damian	1:54pm 11/07/2019	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature) (Printed)	Date/Time 1:54 11/07/19	Received by Lab: (Signature) (Printed) Cory Koons			

Delivery Method:
- ☐ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other:

Special Instructions/QC Requirements & Comments:
2nd Quarter Well Samples
Case# 18-0559-AA

Turn Around Time:
- ☑ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: ____
- ☐ Specific Due Date: ____

Lab Use:
Temp: 8.0°C
- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for ____ days

MSS-F001-03/13