PETROLEUM MANAGEMENT, INC.

Environmental Services Division

1030 E. Patapsco Avenue ♦ Baltimore, Maryland 21225

Phone: (410) 354-0200 ♦ Fax: (410) 721-1390

January 3, 2023

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

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

Please find the enclosed Quarterly Sampling Report for the 4th Quarter of 2022 at the Wiley Bates Middle School location, Facility ID#3200, MDE Case# 18-0559.

In accordance with the Partial Work Plan Approval dated October 25, 2022, Petroleum Management, Inc. (PMI), has proceeded to remove the skimmer pumps from MW-1 and MW-2. With skimmer pumps removed on November 21, 2022, monitoring wells MW-1 and MW-2 have been gauged weekly as directed through the month of December 2022 with the following LPH rebound observed:

Bates Middle School- Monitoring Well Gauging Table
MW-1 Top of Casing Elevation, 28.44'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
11/21/22	9:00	15.11	15.15	0.04		13.29	Skimmer pumps removed per MDE approval in Partial Work Plan
11/22/22	12:58	14.62	14.63	0.01	0.52	13.81	No skimmers operating, 4th Qtr gauging event
12/1/22	9:30	14.68	14.71	0.03	-0.08	13.73	Weekly gauging, skimmers OOS
12/8/22	2:30	14.66	14.72	0.06	-0.01	13.72	Weekly gauging, skimmers OOS
12/15/22	11:15	14.51	14.58	0.07	0.14	13.86	Weekly gauging, skimmers OOS
12/21/23	10:30	14.06	14.29	0.23	0.29	14.15	Weekly gauging, skimmers OOS

Bates Middle School- Monitoring Well Gauging Table
MW-2 Top of casing elevation, 28.17'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
11/21/22	9:00	13.95	13.96	0.01		14.21	Skimmer pumps removed per MDE approval in Partial Work Plan
11/22/22	13:05	13.94	13.96	0.02	0.00	14.21	No skimmers operating, 4th Qtr gauging event
12/1/22	9:30	13.93	14.00	0.07	-0.04	14.17	Weekly gauging, skimmers OOS
12/8/22	2:30	13.92	13.99	0.07	0.01	14.18	Weekly gauging, skimmers OOS
12/15/22	11:15	13.81	13.88	0.07	0.11	14.29	Weekly gauging, skimmers OOS
12/21/23	10:30	13.48	13.71	0.23	0.17	14.46	Weekly gauging, skimmers OOS

After gauging for 5 consecutive weeks, water table elevations have increased and LPH rebound under static water conditions has returned to 0.23 ft. (2.76 inches) in each well. In accordance with the Partial Work Plan, PMI will continue to gauge wells MW-1 and MW-2 on a monthly basis to continue to document LPH rebound in the absence of the skimmer pumps. PMI will report LPH rebound conditions again at the end of January 2023. If LPH thickness after the end of the next month is considerable, restoration of the recovery system can be discussed.

Additionally, work plan schedule regarding the HVAC upgrade project at the site is proceeding with the concrete chiller pad and conduit trenching tentatively scheduled to begin on March 1, 2023. As discussed in the Partial Work Plan Approval, wells MW-4 and MW-10 will be compromised by this activity. PMI will look to schedule the proper abandonment of these wells in the month of February 2023. Also scheduled to take place in February 2023 will be the completion of the 1st Quarter 2023 sampling event of all site wells, including MW-4 and MW-10 prior to abandonment. Once a review of the 1st Quarter 2023 results can be completed we would like to consider proper abandonments of additional site wells as discussed in the Partial Work Plan Approval.

Thank you for your attention to this case.

W. Scott Alexander
Project Manager

Enc.

PETROLEUM MANAGEMENT, INC.

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January 2, 2023

Maryland Department of the Environment
Oil Control Program
Attn: Lindley Campbell
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

Quarterly Sampling Report
4th Quarter 2022

Dear Ms. Campbell,

In accordance with the MDE directives, a quarterly monitoring well sampling event was completed at the site on November 23, 2022. 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 still persistent and measurable in both MW-1 and MW-2. Active skimmer pumps at MW-1 and MW-1 are still deployed as part of the recovery system. As such, these wells were excluded from purging and sampling.

After gauging and in the absence of any LPH, each well was purged with a submersible low-flow pump on November 22, 2022 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 #35464). After allowing groundwater in each well to recover to pre-purge levels, sampling from each well was completed on November 23, 2022.

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. **For the purpose of future sample analysis and comparison to current MDE Clean-up Standards, a lower detection limit was requested in the TPH-GRO and TPH-DRO analysis. As noted in the laboratory report, an ND result would indicate a concentration below the reporting limit as well as the detection limit for the analysis. If the result is below the reporting limit but above the detection limit, a J-Flag notation would be indicated to reflect an estimated concentration.**

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.							
	2/19/20	*LPH present, no sampling this quarter. Well target of EFR activity.							
	5/20/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	11/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	2/25/21	*LPH present, no sampling this quarter. Well target of active recovery system.							
	5/20/21	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/25/21	*LPH present, no sampling this quarter.							
	11/17/21	*LPH present, no sampling this quarter.							
	2/24/22	*LPH present, no sampling this quarter.							
	5/26/22	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/24/22	*LPH present, no sampling this quarter. Well target of active recovery system.							
	11/23/22	***LPH present, no sampling this quarter. Well target of active recovery system.**							
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.							
	2/19/20	*LPH present, no sampling this quarter. Well target of EFR activity.							
	5/20/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	11/19/20	*LPH present, no sampling this quarter. Well target of active recovery system.							
	2/25/21	*LPH present, no sampling this quarter. Well target of active recovery system.							
	5/20/21	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/25/21	*LPH present, no sampling this quarter.							
	11/17/21	*LPH present, no sampling this quarter.							
	2/24/22	*LPH present, no sampling this quarter.							
	5/26/22	*LPH present, no sampling this quarter. Well target of active recovery system.							
	8/24/22	*LPH present (heavy sheen only), no sampling this quarter. Well target of active recovery system.							
	11/23/22	***LPH present, no sampling this quarter. Well target of active recovery system.**							
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.							
	2/19/20	102	1870	ND <2.0	ND <2.0	ND <2.0	4.7	ND <2.0	ND <2.0
	5/20/20	ND <100	8770	ND <2.0	ND <2.0	ND <2.0	4.1	ND <2.0	4.3
	8/19/20	ND <100	5530	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	2720	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	6520	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	6260	ND <2.0	ND <2.0	ND <2.0	3.7	ND <2.0	4.5
	8/25/21	ND <100	2210	ND <2.0	ND <2.0	ND <2.0	1.1	ND <2.0	ND <2.0
	11/17/21	ND <100	7530	ND <2.0	ND <2.0	ND <2.0	1.5	ND <2.0	ND <2.0
	2/24/22	ND <100	480	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	3560	ND <2.0	ND <2.0	1.0 J	6.1 J	ND <2.0	4.7 J
	8/24/22	ND <100	7500	ND <2.0	ND <2.0	ND <2.0	1.2 J	ND <2.0	4.3
	11/23/22	**ND <45**	**3100**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**ND <2.0**	**3.1**
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 or detection limit.
J= Detected but below detection limit; estimated concentration.

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
	2/19/20	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <270	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <280	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	**90**	**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 or detection 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
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <190	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	50	**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 or detection 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
	2/19/20	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <190	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	*ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	90	**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

*TPH-DRO sample was compromised by lab, well was re-sampled for TPH-DRO on 3/2/22.

ND= Not Detected at or above the method reporting or detection 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
	2/19/20	ND <100	ND <260	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <190	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	50	**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 or detection 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
	2/19/20	190	9830	ND <2.0	ND <2.0	2.7	7.6	ND <2.0	7.5
	5/20/20	ND <100	1180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	370	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	300	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	1930	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	750	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	1990	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	680	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	370	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	110	**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 or detection 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
	2/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	50	**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 or detection 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
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	**ND <40**	**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 or detection 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
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <200	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <180	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	**40**	**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 or detection 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
	2/19/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <190	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <210	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	**ND <30**	**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 or detection 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							
	2/19/20	*Well purged dry with no recharge; no water present to sample							
	5/20/20	*Well purged dry with no recharge; no water present to sample							
	8/19/20	*Well purged dry with no recharge; no water present to sample							
	11/19/20	*Little to no water present, gauged at 0.26 gal; not enough to sample							
	2/25/21	*Little to no water present, gauged at 0.19 gal; not enough to sample							
	5/20/21	*Little to no water present, gauged at 0.17 gal; not enough to sample							
	8/25/21	*Little to no water present, gauged at 0.15 gal; not enough to sample							
	11/17/21	*Little to no water present, gauged at 0.21 gal; not enough to sample							
	2/24/22	*Little to no water present, not enough to sample							
	5/26/22	*Little to no water present, not enough to sample							
	8/24/22	*Little to no water present, not enough to sample							
	11/23/22	***Little to no water present, not enough 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 or detection 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 *(MW-9)*	8/8/19	ND <100	940	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/7/19	*Well purged dry with no recharge; no water present to sample							
	2/19/20	ND <100	ND <270	ND <2.0	ND <2.0	ND <2.0	1.6	ND <2.0	ND <2.0
	5/20/20	ND <100	ND <240	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/19/20	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/19/20	ND <100	240	ND <2.0	ND <2.0	ND <2.0	4.1	ND <2.0	ND <2.0
	2/25/21	ND <100	ND <230	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/20/21	ND <100	ND <200	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/25/21	ND <100	ND <220	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/17/21	ND <100	ND <250	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	2/24/22	ND <100	ND <340	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	5/26/22	ND <100	ND <300	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	8/24/22	ND <100	ND <280	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0
	11/23/22	**ND <45**	**100**	**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 or detection limit.

Conclusions:

Upon review and comparison of the gauging and sampling results from the previous quarterly sampling events and the current 4th quarter of 2022, LPH at MW-3 has still not returned and has not been observed since November 13, 2019. LPH is still present and observed at MW-1 and MW-2 however, after being reduced to 0.01' or less in early November 2022, the skimmer pumps were removed and the recovery system at MW-1 and MW-2 was de-activated on November 21, 2022 in accordance with the Partial Work Plan Approval dated October 25, 2022. Weekly gauging of MW-1 and MW-2 has continued through December 2022 to monitor LPH rebound under static water conditions.

With LPH no longer present at MW-3, sampling this quarter indicates another decrease in dissolved-phase TPH-DRO contamination from the previous quarter to 3100 ug/L. Dissolved-phase TPH-DRO

contamination at MW-8 has declined from last quarter to 110 ug/L. With the lower detection limits now established for the TPH analysis, it can be observed that dissolved phase concentrations of TPH-DRO exist at levels approaching the clean-up standards, 50-100 ug/L at wells MW-4, MW-5, MW-6, MW-7, MW-10 and TF-2. TPH-GRO and VOC concentrations at these well locations are still below the clean-up standards. As seen in all past quarterly sampling events, all parameter concentrations at wells MDE-1, MDE-2, and MDE-3 remain both below detection limits and the MDE clean-up standards. A complete laboratory results report for the 4th quarter 2022 sampling event along with well gauging data and site plan of monitoring well locations is attached for review. As directed by MDE, the next quarterly sampling event will be scheduled on or about February 22, 2022.

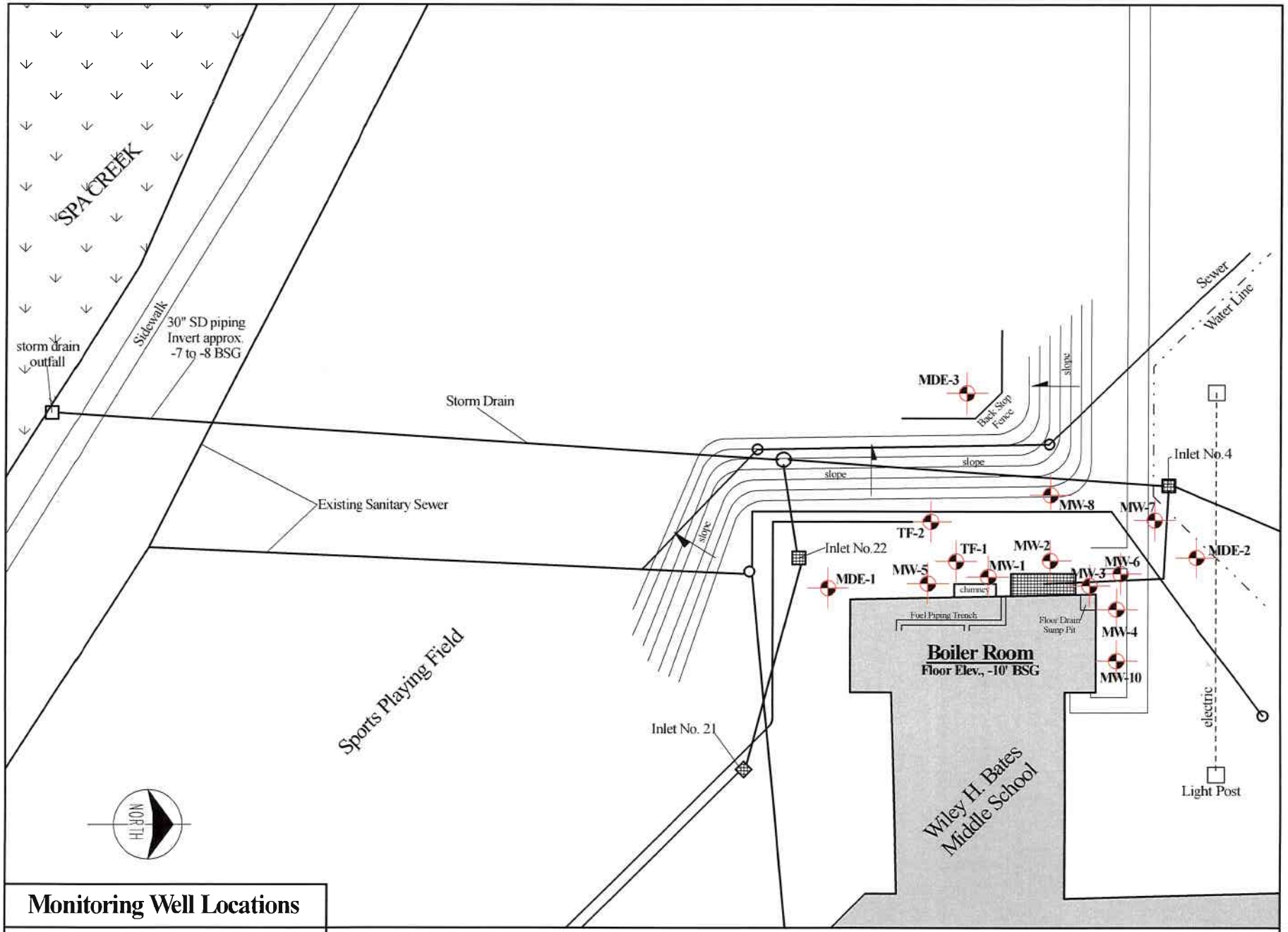
Please contact our office with any questions or concerns.

Respectfully submitted,

W. Scott Alexander
Environmental Projects Manager

Enc.

cc: *Mr. Christopher Williams*
Environmental Health & Safety 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

Bates Middle School- Monitoring Well Gauging Table

MW-1 Top of Casing Elevation, 28.44'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
	12:40	14.31	18.65	4.34		9.79	
11/6/19	12:40	16.85	18.56	1.71	0.09	9.88	Post EFR
2/19/20	7:45	14.40	22.89	8.49	-4.33	5.55	
5/19/20	13:43	14.15	14.24	0.09	8.65	14.20	Genie skimmer pumps activated 4/29/20
7/30/20	10:30	15.21	15.25	0.04	-1.01	13.19	Gauged prior to 8/18/20 sampling.
11/18/20	8:30	13.71	13.73	0.02	1.52	14.71	
11/19/20	9:00	13.62	13.72	0.10	0.01	14.72	Genie skimmer pumps off for 24 hrs from 11/18/20.
2/24/21	12:01	13.55	13.63	0.08	0.09	14.81	
5/19/21	13:28	13.85	13.86	0.01	-0.23	14.58	
6/23/21	13:14	14.05	14.06	0.01	-0.20	14.38	Genie skimmer pumps removed today at 13:00
6/30/21	9:20	13.86	14.12	0.26	-0.06	14.32	
7/7/21	9:37	13.91	14.26	0.35	-0.14	14.18	
7/14/21	11:46	13.93	14.41	0.48	-0.15	14.03	
7/27/21	10:45	14.04	14.92	0.88	-0.51	13.52	
8/11/21	13:30	14.12	15.52	1.40	-0.60	12.92	
8/24/21	13:31	14.17	15.83	1.66	-0.31	12.61	
9/8/21	10:43	14.10	15.68	1.58	0.15	12.76	
9/22/21	9:50	14.17	16.03	1.86	-0.35	12.41	
10/6/21	**10:30**	**14.21**	**16.19**	**1.98**	**-0.16**	**12.25**	***Bailed LPH from well (~1 gal) after gauging.**
10/6/21	*11:00*	*16.63*	*16.95*	*0.32*	*-0.76*	*11.49*	**gauged 30 minutes after bailing LPH*
10/6/21	*12:00*	*14.41*	*14.82*	*0.41*	*2.13*	*13.62*	**gauged 60 minutes after bailing LPH*
10/19/21	12:50	14.39	15.16	0.77	-0.34	13.28	
11/5/21	11:05	14.36	15.20	0.84	-0.04	13.24	
11/16/21	9:13	14.45	15.47	1.02	-0.27	12.97	
12/1/21	15:09	14.49	15.53	1.04	-0.06	12.91	
12/15/21	13:30	14.50	15.64	1.14	-0.11	12.80	
12/29/21	11:52	14.51	15.66	1.15	-0.02	12.78	
1/12/22	16:01	14.38	15.24	0.86	0.42	13.20	
1/25/22	12:00	14.21	14.94	0.73	0.30	13.50	*Week prior to Draw-Down Event
2/2/22	8:00	14.90	15.48	0.58	-0.54	12.96	*Morning prior to Draw Down Event
2/3/22	10:50	14.91	15.02	0.11	0.46	13.42	*Morning after Draw Down Event
2/4/22	6:10	13.78	14.23	0.45	0.79	14.21	*Day after Draw Down Event
2/9/22	13:25	14.53	15.44	0.91	-1.21	13.00	*Week after Draw Down Event
2/15/22	11:08	14.60	16.10	1.50	-0.66	12.34	*2 Weeks after Draw-Down Event
2/23/22	8:33	14.51	16.45	1.94	-0.35	11.99	*3 Weeks after Draw Down Event
4/13/22	11:05	14.12	14.18	0.06	2.27	14.26	QED skimmers re-activated on March 11, 2022
5/25/22	14:27	14.22	14.28	0.06	-0.10	14.16	2nd quarter gauging event
6/30/22	10:35	14.65	14.65	0.00	-0.37	13.79	Monthly follow-up
7/20/22	7:15	14.39	14.4	0.01	0.25	14.04	Monthly follow-up
8/23/22	10:28	14.50	14.51	0.01	-0.11	13.93	3rd qtr gauging event
9/21/22	11:15	14.86	14.86	0.00	-0.35	13.58	No measurable LPH; <0.01'. Skimmer de-activated to see if any LPH returns in a week.
9/29/22	8:05	14.64	14.68	0.04	0.18	13.76	Water levels increased with minimal LPH increase; skimmers to remain off with rain in forecast
10/5/22	12:45	14.46	14.5	0.04	0.18	13.94	Water levels increased following rain with no LPH increase; skimmers to remain off again.
10/18/22	1:15	14.50	14.61	0.11	-0.11	13.83	~2 weeks following rain event, water level drops and LPH now increased by 0.07', Skimmers replaced and activat
11/3/22	10:00	15.08	15.12	0.04	-0.51	13.32	Skimmer pumps back in service since 10/18/22
11/21/22	9:00	15.11	15.15	0.04	-0.03	13.29	Skimmer pumps removed per MDE approval in Partial Work Plan
11/22/22	12:58	14.62	14.63	0.01	0.52	13.81	No skimmers operating, 4th Qtr gauging event

Bates Middle School- Monitoring Well Gauging Table

MW-2 Top of casing elevation, 28.17'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:37	14.05	15.80	1.75		12.37	
11/6/19	12:43	15.02	15.54	0.52	0.26	12.63	Post EFR
2/19/20	7:47	14.16	14.41	0.25	1.13	13.76	
5/19/20	13:35	13.46	13.54	0.08	0.87	14.63	Genie skimmer pumps activated 4/29/20
7/30/20	10:35	13.94	13.98	0.04	-0.44	14.19	Gauged prior to 8/18/20 sampling.
11/18/20	8:30	13.07	13.10	0.03	0.88	15.07	
11/19/20	9:00	13.02	13.07	0.05	0.03	15.10	Genie skimmer pumps off for 24 hrs from 11/18/20.
2/24/21	12:05	13.20	13.25	0.05	-0.18	14.92	
5/19/21	13:30	13.28	13.29	0.01	-0.04	14.88	
6/23/21	13:15	13.50	13.50	0.00	-0.21	14.67	Genie skimmer pumps removed today at 13:00
6/30/21	9:14	13.49	13.50	0.01	0.00	14.67	
7/7/21	9:32	13.51	13.55	0.04	-0.05	14.62	
7/14/21	11:50	13.54	13.58	0.04	-0.03	14.59	
7/27/21	10:48	13.64	13.71	0.07	-0.13	14.46	
8/11/21	13:28	13.72	13.79	0.07	-0.08	14.38	
8/24/21	13:35	13.76	13.82	0.06	-0.03	14.35	
9/8/21	10:40	13.69	13.71	0.02	0.11	14.46	
9/22/21	9:46	13.76	13.81	0.05	-0.10	14.36	
10/6/21	11:05	13.82	13.88	0.06	-0.07	14.29	
10/19/21	12:55	13.85	13.92	0.07	-0.04	14.25	
11/5/21	11:08	13.87	13.92	0.05	0.00	14.25	
11/16/21	9:02	13.95	14.03	0.08	-0.11	14.14	
12/1/21	15:16	13.96	14.19	0.23	-0.16	13.98	
12/15/21	13:26	13.96	14.26	0.30	-0.07	13.91	
12/29/21	11:59	13.97	14.28	0.31	-0.02	13.89	
1/12/22	16:01	13.91	14.41	0.50	-0.13	13.76	
1/25/22	12:05	13.76	14.20	0.44	0.21	13.97	*Week prior to Draw Down Event
2/2/22	8:30	13.83	14.26	0.43	-0.06	13.91	*Morning prior to Draw Down Event
2/3/22	10:51	13.80	14.25	0.45	0.01	13.92	*Morning after Draw Down Event
2/4/22	6:12	14.82	14.99	0.17	-0.74	13.18	*Day after Draw Down Event
2/9/22	13:21	13.67	14.04	0.37	0.95	14.13	*Week after Draw Down Event
2/15/22	11:05	13.71	14.13	0.42	-0.09	14.04	*2 Weeks after Draw Down Event
2/23/22	8:29	13.68	14.16	0.48	-0.03	14.01	*3 Weeks after Draw Down Event
4/13/22	11:10	13.48	13.50	0.02	0.66	14.67	QED Skimmer pumps re-activated March 11, 2022
5/25/22	14:30	13.52	13.53	0.01	-0.03	14.64	2nd qtr gauging event
6/30/22	10:37	13.85	13.85	0.00	-0.32	14.32	Monthly follow-up
7/20/22	7:15	13.69	13.70	0.01	0.15	14.47	Monthly follow-up
8/23/22	10:32	13.70	13.70	0.00	0.00	14.47	3rd qtr gauging event. LPH <0.01 only a heavy sheen present.
9/21/22	11:15	13.90	13.90	0.00	-0.20	14.27	No measurable LPH; <0.01'. Skimmer de-activated to see if any LPH returns in a week.
9/29/22	8:05	13.88	13.91	0.03	-0.01	14.26	Water levels dropped slighlty with minimal LPH increase; skimmers to remain off with rain in forecast
10/5/22	12:45	13.79	13.79	0.00	0.12	14.38	Water levels increased following rain with a drop in LPH; skimmers to remain off again.
10/18/22	1:15	13.80	13.82	0.02	-0.03	14.35	~2 weeks following rain event, water level drops and LPH now increased to 0.02'', Skimmers replaced and activat
11/3/22	10:00	14.93	14.94	0.01	-1.12	13.23	Skimmer pumps back in service since 10/18/22
11/21/22	9:00	13.95	13.96	0.01	0.98	14.21	Skimmer pumps removed per MDE approval in Partial Work Plan
11/22/22	13:05	13.94	13.96	0.02	0.00	14.21	No skimmers operating, 4th Qtr gauging event

Bates Middle School- Monitoring Well Gauging Table

MW-3 Top of casing elevation, 28.15'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:35	14.00	14.92	0.92		13.23	
11/6/19	12:47	15.06	15.08	0.02	-0.16	13.07	Post EFR
2/18/20	11:56	14.10	14.10	0.00	0.98	14.05	
5/19/20	13:03	14.40	14.40	0.00	-0.30	13.75	
8/18/20	9:25	13.75	13.75	0.00	0.65	14.40	
11/18/20	12:02	13.50	13.50	0.00	0.25	14.65	
2/24/21	11:27	13.87	13.87	0.00	-0.37	14.28	
5/19/21	12:58	13.63	13.63	0.00	0.24	14.52	
6/23/19	13:45	13.83	13.83	0.00	-0.20	14.32	
6/30/21	9:10	13.89	13.89	0.00	-0.06	14.26	
7/7/21	9:25	13.91	13.91	0.00	-0.02	14.24	
7/14/21	11:28	13.95	13.95	0.00	-0.04	14.20	
7/27/21	10:20	14.04	14.04	0.00	-0.09	14.11	
8/11/21	13:04	14.11	14.11	0.00	-0.07	14.04	
8/24/21	11:54	14.21	14.21	0.00	-0.10	13.94	
9/8/21	10:21	14.03	14.03	0.00	0.18	14.12	
9/22/21	9:23	14.11	14.11	0.00	-0.08	14.04	
10/6/21	11:14	14.17	14.17	0.00	-0.06	13.98	
10/19/21	12:28	14.21	14.21	0.00	-0.04	13.94	
11/5/21	10:35	14.22	14.22	0.00	-0.01	13.93	
11/16/21	8:58	14.27	14.27	0.00	-0.05	13.88	
12/1/21	15:00	14.32	14.32	0.00	-0.05	13.83	
12/15/21	13:03	14.33	14.33	0.00	-0.01	13.82	
12/29/21	11:20	14.34	14.34	0.00	-0.01	13.81	
1/12/22	14:44	14.20	14.20	0.00	0.14	13.95	
1/25/22	14:30	14.19	14.19	0.00	0.01	13.96	*Week prior to Draw Down Event
2/2/22		14.25	14.25	0.00	-0.06	13.90	*Morning prior to Draw Down Event
2/3/22	10:30	14.15	14.15	0.00	0.10	14.00	*Morning after Draw Down Event
2/4/22	6:20	14.12	14.12	0.00	0.03	14.03	*Day after Draw Down Event
2/9/22	13:07	14.00	14.00	0.00	0.12	14.15	*Week after Draw Down Event
2/15/22	10:28	14.09	14.09	0.00	-0.09	14.06	*2 Weeks after Draw Down Event
2/23/22	8:00	14.06	14.06	0.00	0.03	14.09	*3 Weeks after Draw Down Event
4/13/22	11:41	13.68	13.68	0.00	0.38	14.47	
5/25/22	8:49	13.80	13.80	0.00	-0.12	14.35	2nd qtr sampling event
8/23/22	10:12	13.98	13.98	0.00	-0.18	14.17	3rd qtr samling event
11/22/22	10:03	14.18	14.18	0.00	-0.20	13.97	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-4 Top of casing elevation, 27.64'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:31	13.19	13.19	0.00		14.45	
11/6/19	7:44	13.52	13.52	0.00	-0.33	14.12	
2/18/20	11:26	13.15	13.15	0.00	0.37	14.49	
5/19/20	10:38	13.11	13.11	0.00	0.04	14.53	
8/18/20	9:17	12.91	12.91	0.00	0.20	14.73	
11/18/20	10:18	12.64	12.64	0.00	0.27	15.00	
2/24/21	9:41	12.21	12.21	0.00	0.43	15.43	
5/19/21	11:22	12.71	12.71	0.00	-0.50	14.93	
6/23/21	13:38	12.84	12.84	0.00	-0.13	14.80	
6/30/21	8:48	12.89	12.89	0.00	-0.05	14.75	
7/7/21	8:47	12.90	12.90	0.00	-0.01	14.74	
7/14/21	11:23	12.92	12.92	0.00	-0.02	14.72	
7/27/21	10:15	12.99	12.99	0.00	-0.07	14.65	
8/11/21	13:10	12.98	12.98	0.00	0.01	14.66	
8/24/21	12:06	13.59	13.59	0.00	-0.61	14.05	
9/8/21	10:22	12.82	12.82	0.00	0.77	14.82	
9/22/21	9:24	12.85	12.85	0.00	-0.03	14.79	
10/6/21	11:17	12.87	12.87	0.00	-0.02	14.77	
10/19/21	12:33	12.90	12.90	0.00	-0.03	14.74	
11/5/21	10:37	12.88	12.88	0.00	0.02	14.76	
11/16/21	8:15	12.94	12.94	0.00	-0.06	14.70	
12/1/21	14:25	13.01	13.01	0.00	-0.07	14.63	
12/15/21	13:07	13.01	13.01	0.00	0.00	14.63	
12/29/21	11:24	13.03	13.03	0.00	-0.02	14.61	
1/12/22	14:36	12.78	12.78	0.00	0.25	14.86	
1/25/22	14:33	12.77	12.77	0.00	0.01	14.87	*Week prior to Draw Down Event
2/9/22	13:03	12.59	12.59	0.00	0.18	15.05	*Week after Draw Down Event
2/15/22	10:31	12.69	12.69	0.00	-0.10	14.95	*2 Weeks after Draw Down Event
2/23/22	8:02	12.66	12.66	0.00	0.03	14.98	*3 Weeks after Draw Down Event
4/13/22	11:37	12.42	12.42	0.00	0.24	15.22	
5/25/22	8:24	12.52	12.52	0.00	-0.10	15.12	2nd qtr sampling event
8/23/22	10:08	12.58	12.58	0.00	-0.06	15.06	3rd qtr sampling event
11/22/22	9:56	12.75	12.75	0.00	-0.17	14.89	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-5 Top of casing elevation, 28.57'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:06	18.50	18.50	0.00		10.07	
11/6/19	12:03	18.49	18.49	0.00	0.01	10.08	
2/18/20	13:27	17.71	17.71	0.00	0.78	10.86	
5/19/20	11:34	17.91	17.91	0.00	-0.20	10.66	
8/18/20	11:54	17.76	17.76	0.00	0.15	10.81	
11/18/20	11:10	17.37	17.37	0.00	0.39	11.20	
2/24/21	11:36	16.91	16.91	0.00	0.46	11.66	
5/19/21	12:01	17.78	17.78	0.00	-0.87	10.79	
6/23/21	13:50	17.96	17.96	0.00	-0.18	10.61	
6/23/21	9:05	18.02	18.02	0.00	-0.06	10.55	
7/7/21	9:10	17.98	17.98	0.00	0.04	10.59	
7/14/21	11:42	18.07	18.07	0.00	-0.09	10.50	
7/27/21	10:28	18.21	18.21	0.00	-0.14	10.36	
8/11/21	12:56	18.29	18.29	0.00	-0.08	10.28	
8/24/21	11:10	18.31	18.31	0.00	-0.02	10.26	
9/8/21	10:06	18.09	18.09	0.00	0.22	10.48	
9/22/21	9:10	18.28	18.28	0.00	-0.19	10.29	
10/6/21	11:30	18.30	18.30	0.00	-0.02	10.27	
10/19/21	12:19	18.35	18.35	0.00	-0.05	10.22	
11/5/21	10:22	18.14	18.14	0.00	0.21	10.43	
11/16/21	8:29	18.24	18.24	0.00	-0.10	10.33	
12/1/21	14:38	18.29	18.29	0.00	-0.05	10.28	
12/15/21	12:55	18.30	18.30	0.00	-0.01	10.27	
12/29/21	11:10	18.32	18.32	0.00	-0.02	10.25	
1/12/22	14:56	17.84	17.84	0.00	0.48	10.73	
1/25/22	14:24	18.00	18.00	0.00	-0.16	10.57	*Week prior to Draw Down Event
2/2/22		17.90	17.90	0.00	0.10	10.67	*Morning prior to Draw Down Event
2/3/22	10:23	17.90	17.90	0.00	0.00	10.67	*Morning after Draw Down Event
2/4/22	6:25	17.79	17.79	0.00	0.11	10.78	*Day after Draw Down Event
2/9/22	12:51	17.64	17.64	0.00	0.15	10.93	*Week after Draw Down Event
2/15/22	10:20	17.86	17.86	0.00	-0.22	10.71	*2 Weeks after Draw Down Event
2/23/22	7:37	17.91	17.91	0.00	-0.05	10.66	*3 Weeks after Draw Down Event
4/13/22	11:44	17.52	17.52	0.00	0.39	11.05	
5/25/22	8:30	17.83	17.83	0.00	-0.31	10.74	2nd qtr sampling event
8/23/22	10:24	18.29	18.29	0.00	-0.46	10.28	3rd qtr sampling event
11/22/22	9:15	18.25	18.25	0.00	0.04	10.32	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-6 Top of casing elevation, 26.96'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:26	12.32	12.32	0.00		14.64	
11/6/19	7:47	12.55	12.55	0.00	-0.23	14.41	
2/18/20	11:50	12.03	12.03	0.00	0.52	14.93	
5/19/20	12:38	12.36	12.36	0.00	-0.33	14.60	
8/18/20	9:20	11.79	11.79	0.00	0.57	15.17	
11/18/20	10:12	12.02	12.02	0.00	-0.23	14.94	
2/24/21	9:45	11.65	11.65	0.00	0.37	15.31	
5/19/21	11:38	12.66	12.66	0.00	-1.01	14.30	
6/23/21	13:40	12.00	12.00	0.00	0.66	14.96	
6/30/21	8:52	12.22	12.22	0.00	-0.22	14.74	
7/7/21	8:51	12.24	12.24	0.00	-0.02	14.72	
7/14/21	11:25	12.29	12.29	0.00	-0.05	14.67	
7/27/21	10:17	12.37	12.37	0.00	-0.08	14.59	
8/11/21	13:07	12.41	12.41	0.00	-0.04	14.55	
8/24/21	11:48	12.47	12.47	0.00	-0.06	14.49	
9/8/21	10:20	12.30	12.30	0.00	0.17	14.66	
9/22/21	9:20	12.39	12.39	0.00	-0.09	14.57	
10/6/21	11:15	12.44	12.44	0.00	-0.05	14.52	
10/19/21	12:29	12.48	12.48	0.00	-0.04	14.48	
11/5/21	10:38	12.45	12.45	0.00	0.03	14.51	
11/16/21	8:36	12.52	12.52	0.00	-0.07	14.44	
12/1/21	14:31	12.55	12.55	0.00	-0.03	14.41	
12/15/21	13:05	12.54	12.54	0.00	0.01	14.42	
12/29/21	11:23	12.55	12.55	0.00	-0.01	14.41	
1/12/22	14:40	12.33	12.33	0.00	0.22	14.63	
1/25/22	14:32	12.39	12.39	0.00	-0.06	14.57	*Week prior to Draw Down Event
2/9/22	13:05	12.18	12.18	0.00	0.21	14.78	*Week after Draw Down Event
2/15/22	10:29	12.32	12.32	0.00	-0.14	14.64	*2 Weeks after Draw Down Event
2/23/22	8:12	12.30	12.30	0.00	0.02	14.66	*3 Weeks after Draw Down Event
4/13/22	11:39	12.04	12.04	0.00	0.26	14.92	
5/25/22	8:26	12.17	12.17	0.00	-0.13	14.79	2nd qtr sampling event
8/23/22	10:10	12.31	12.31	0.00	-0.14	14.65	3rd qtr sampling event
11/22/22	10:00	12.47	12.47	0.00	-0.16	14.49	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-7 Top of casing elevation, 25.85'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:21	12.12	12.12	0.00		13.73	
11/6/19	9:35	12.19	12.19	0.00	-0.07	13.66	
2/18/20	10:17	12.12	12.12	0.00	0.07	13.73	
5/19/20	9:10	12.07	12.07	0.00	0.05	13.78	
8/18/20	9:00	11.85	11.85	0.00	0.22	14.00	
11/18/20	9:28	11.75	11.75	0.00	0.10	14.10	
2/24/21	9:25	11.62	11.62	0.00	0.13	14.23	
5/19/21	10:23	11.90	11.90	0.00	-0.28	13.95	
6/23/21	13:22	12.01	12.01	0.00	-0.11	13.84	
6/30/21	8:36	12.01	12.01	0.00	0.00	13.84	
7/7/21	8:27	12.02	12.02	0.00	-0.01	13.83	
7/14/21	11:13	12.05	12.05	0.00	-0.03	13.80	
7/27/21	10:05	12.12	12.12	0.00	-0.07	13.73	
8/11/21	13:17	12.16	12.16	0.00	-0.04	13.69	
8/24/21	13:18	12.41	12.41	0.00	-0.25	13.44	
9/8/21	10:30	12.05	12.05	0.00	0.36	13.80	
9/22/21	9:31	12.14	12.14	0.00	-0.09	13.71	
10/6/21	11:41	12.19	12.19	0.00	-0.05	13.66	
10/19/21	12:38	12.23	12.23	0.00	-0.04	13.62	
11/5/21	10:54	12.20	12.20	0.00	0.03	13.65	
11/16/21	7:55	12.28	12.28	0.00	-0.08	13.57	
12/1/21	14:14	12.31	12.31	0.00	-0.03	13.54	
12/15/21	13:15	12.32	12.32	0.00	-0.01	13.53	
12/29/21	11:35	12.33	12.33	0.00	-0.01	13.52	
1/12/22	14:23	12.19	12.19	0.00	0.14	13.66	
1/25/22	14:41	12.20	12.20	0.00	-0.01	13.65	*Week prior to Draw Down Event
2/9/22	13:11	12.03	12.03	0.00	0.17	13.82	*Week after Draw Down Event
2/15/22	10:48	12.14	12.14	0.00	-0.11	13.71	*2 Weeks after Draw Down Event
2/23/22	8:20	12.13	12.13	0.00	0.01	13.72	*3 Weeks after Draw Down Event
4/13/22	11:38	11.91	11.91	0.00	0.22	13.94	
5/25/22	8:18	11.97	11.97	0.00	-0.06	13.88	2nd qtr sampling event
8/23/22	9:53	12.10	12.10	0.00	-0.13	13.75	3rd qtr sampling event
11/22/22	9:38	12.25	12.25	0.00	-0.15	13.60	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-8 Top of casing elevation, 27.15'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:12	16.20	16.20	0.00		10.95	
11/6/19	7:50	16.36	16.36	0.00	-0.16	10.79	
2/18/20	12:44	15.80	15.80	0.00	0.56	11.35	
5/19/20	12:16	15.85	15.85	0.00	-0.05	11.30	
8/18/20	12:22	15.83	15.83	0.00	0.02	11.32	
11/18/20	12:07	15.56	15.56	0.00	0.27	11.59	
2/24/21	11:32	15.03	15.03	0.00	0.53	12.12	
5/19/21	12:38	15.93	15.93	0.00	-0.90	11.22	
6/23/21	13:48	15.90	15.90	0.00	0.03	11.25	
6/30/21	8:55	15.97	15.97	0.00	-0.07	11.18	
7/7/21	8:56	15.93	15.93	0.00	0.04	11.22	
7/14/21	11:32	16.01	16.01	0.00	-0.08	11.14	
7/27/21	10:25	16.14	16.14	0.00	-0.13	11.01	
8/11/21	12:58	16.19	16.19	0.00	-0.05	10.96	
8/24/21	11:28	16.23	16.23	0.00	-0.04	10.92	
9/8/21	10:15	16.00	16.00	0.00	0.23	11.15	
9/22/21	9:14	16.17	16.17	0.00	-0.17	10.98	
10/6/21	11:32	16.19	16.19	0.00	-0.02	10.96	
10/19/21	12:25	16.24	16.24	0.00	-0.05	10.91	
11/5/21	10:29	16.04	16.04	0.00	0.20	11.11	
11/16/21	8:42	16.16	16.16	0.00	-0.12	10.99	
12/1/21	14:49	16.28	16.28	0.00	-0.12	10.87	
12/15/21	12:59	16.21	16.21	0.00	0.07	10.94	
12/29/21	11:15	16.25	16.25	0.00	-0.04	10.90	
1/12/22	14:48	15.75	15.75	0.00	0.50	11.40	
1/25/22	14:26	15.91	15.91	0.00	-0.16	11.24	*Week prior to Draw Down Event
2/2/22		15.89	15.89	0.00	0.02	11.26	*Morning prior to Draw Down Event
2/3/22	10:24	15.82	15.82	0.00	0.07	11.33	*Morning after Draw Down Event
2/4/22	6:30	15.67	15.67	0.00	0.15	11.48	*Day after Draw Down Event
2/9/22	12:55	15.58	15.58	0.00	0.09	11.57	*Week after Draw Down Event
2/15/22	10:22	15.81	15.81	0.00	-0.23	11.34	*2 Weeks after Draw Down Event
2/23/22	7:40	15.82	15.82	0.00	-0.01	11.33	*3 Weeks after Draw Down Event
4/13/22	11:43	15.45	15.45	0.00	0.37	11.70	
5/25/22	9:06	16.04	16.04	0.00	-0.59	11.11	2nd qtr samling event
8/23/22	10:18	16.20	16.20	0.00	-0.16	10.95	3rd qtr sampling event
11/22/22	9:24	16.11	16.11	0.00	0.09	11.04	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MW-10 Top of casing elevation, 27.96'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:15	10.45	10.45	0.00		17.51	
11/6/19	7:41	11.10	11.10	0.00	-0.65	16.86	
2/18/20	10:55	10.85	10.85	0.00	0.25	17.11	
5/19/20	10:12	10.93	10.93	0.00	-0.08	17.03	
8/18/20	9:15	11.06	11.06	0.00	-0.13	16.90	
11/18/20	10:49	10.79	10.79	0.00	0.27	17.17	
2/24/21	9:37	10.49	10.49	0.00	0.30	17.47	
5/19/21	11:03	10.88	10.88	0.00	-0.39	17.08	
6/23/19	13:35	11.15	11.15	0.00	-0.27	16.81	
6/30/21	8:46	11.32	11.32	0.00	-0.17	16.64	
7/7/21	8:40	11.34	11.34	0.00	-0.02	16.62	
7/14/21	11:20	11.40	11.40	0.00	-0.06	16.56	
7/27/21	10:12	11.50	11.50	0.00	-0.10	16.46	
8/11/21	13:12	11.59	11.59	0.00	-0.09	16.37	
8/24/21	12:08	11.66	11.66	0.00	-0.07	16.30	
9/8/21	10:24	11.20	11.20	0.00	0.46	16.76	
9/22/21	9:27	11.50	11.50	0.00	-0.30	16.46	
10/6/21	11:19	11.58	11.58	0.00	-0.08	16.38	
10/19/21	12:35	11.62	11.62	0.00	-0.04	16.34	
11/5/21	10:40	11.59	11.59	0.00	0.03	16.37	
11/16/21	8:10	11.64	11.64	0.00	-0.05	16.32	
12/1/21	14:23	11.58	11.58	0.00	0.06	16.38	
12/15/21	13:10	11.62	11.62	0.00	-0.04	16.34	
12/29/21	11:26	11.63	11.63	0.00	-0.01	16.33	
1/12/22	14:33	11.42	11.42	0.00	0.21	16.54	
1/25/22	14:35	11.26	11.26	0.00	0.16	16.70	*Week prior to Draw Down Event
2/9/22	13:01	11.21	11.21	0.00	0.05	16.75	*Week after Draw Down Event
2/15/22	10:32	11.35	11.35	0.00	-0.14	16.61	*2 Weeks after Draw Down Event
2/23/22	8:15	11.32	11.32	0.00	0.03	16.64	*3 Weeks after Draw Down Event
4/13/22	11:34	11.04	11.04	0.00	0.28	16.92	
5/25/22	8:21	11.14	11.14	0.00	-0.10	16.82	2nd qtr sampling event
8/23/22	10:06	11.19	11.19	0.00	-0.05	16.77	3rd qtr sampling event
11/22/22	9:52	11.41	11.41	0.00	-0.22	16.55	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MDE-1 Top of casing elevation, 27.45'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	9:15	17.90	17.90	0.00		9.55	
11/6/19	11:45	17.89	17.89	0.00	0.01	9.56	
2/18/20	14:28	17.27	17.27	0.00	0.62	10.18	
5/19/20	11:09	17.39	17.39	0.00	-0.12	10.06	
8/18/20	12:05	17.28	17.28	0.00	0.11	10.17	
11/18/20	11:34	17.14	17.14	0.00	0.14	10.31	
2/24/21	11:38	16.56	16.56	0.00	0.58	10.89	
5/19/21	12:19	17.56	17.56	0.00	-1.00	9.89	
6/23/21	13:55	17.75	17.75	0.00	-0.19	9.70	
6/30/21	9:08	17.80	17.80	0.00	-0.05	9.65	
7/7/21	9:00	17.74	17.74	0.00	0.06	9.71	
7/14/21	11:36	17.85	17.85	0.00	-0.11	9.60	
7/27/21	10:30	17.99	17.99	0.00	-0.14	9.46	
8/11/21	12:49	18.07	18.07	0.00	-0.08	9.38	
8/24/21	10:56	17.96	17.96	0.00	0.11	9.49	
9/8/21	10:03	17.83	17.83	0.00	0.13	9.62	
9/22/21	9:01	18.02	18.02	0.00	-0.19	9.43	
10/6/21	11:24	18.04	18.04	0.00	-0.02	9.41	
10/19/21	12:16	18.09	18.09	0.00	-0.05	9.36	
11/5/21	10:19	17.84	17.84	0.00	0.25	9.61	
11/16/21	8:22	17.95	17.95	0.00	-0.11	9.50	
12/1/21	14:34	17.98	17.98	0.00	-0.03	9.47	
12/15/21	12:48	18.00	18.00	0.00	-0.02	9.45	
12/29/21	11:03	18.01	18.01	0.00	-0.01	9.44	
1/12/22	14:52	17.51	17.51	0.00	0.50	9.94	
1/25/22	14:18	17.54	17.54	0.00	-0.03	9.91	*Week prior to Draw Down Event
2/9/22	12:48	17.32	17.32	0.00	0.22	10.13	*Week after Draw Down Event
2/15/22	10:17	17.52	17.52	0.00	-0.20	9.93	*2 Weeks after Draw Down Event
2/23/22	7:08	17.59	17.59	0.00	-0.07	9.86	*3 weeks after Draw Down Event
4/13/22	11:46	18.21	18.21	0.00	-0.62	9.24	
5/25/22	8:34	17.55	17.55	0.00	0.66	9.90	2nd qtr. Sampling event
8/23/22	10:22	17.99	17.99	0.00	-0.44	9.46	3rd qtr sampling event
11/22/22	8:36	17.81	17.81	0.00	0.18	9.64	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MDE-2 Top of casing elevation, 26.03'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:18	11.05	11.05	0.00		14.98	
11/6/19		11.26	11.26	0.00	-0.21	14.77	
2/18/20	10:31	10.75	10.75	0.00	0.51	15.28	
5/19/20	9:42	11.18	11.18	0.00	-0.43	14.85	
8/18/20	9:11	10.36	10.36	0.00	0.82	15.67	
11/18/20	9:50	10.76	10.76	0.00	-0.40	15.27	
2/24/21	9:27	10.50	10.50	0.00	0.26	15.53	
5/19/21	10:44	11.00	11.00	0.00	-0.50	15.03	
6/23/21	13:32	11.04	11.04	0.00	-0.04	14.99	
6/30/20	8:40	11.13	11.13	0.00	-0.09	14.90	
7/7/21	8:36	11.15	11.15	0.00	-0.02	14.88	
7/14/21	11:16	11.18	11.18	0.00	-0.03	14.85	
7/27/21	10:08	11.26	11.26	0.00	-0.08	14.77	
8/11/21	13:15	11.30	11.30	0.00	-0.04	14.73	
8/24/21	13:20	11.36	11.36	0.00	-0.06	14.67	
9/8/21	10:33	11.06	11.06	0.00	0.30	14.97	
9/22/21	9:34	11.29	11.29	0.00	-0.23	14.74	
10/6/21	11:43	11.33	11.33	0.00	-0.04	14.70	
10/19/21	12:43	11.37	11.37	0.00	-0.04	14.66	
11/5/21	10:57	11.30	11.30	0.00	0.07	14.73	
11/16/21	8:02	11.43	11.43	0.00	-0.13	14.60	
12/1/21	14:19	11.97	11.97	0.00	-0.54	14.06	
12/15/21	13:18	12.46	12.46	0.00	-0.49	13.57	
12/29/21	11:38	12.48	12.48	0.00	-0.02	13.55	
1/12/22	14:28	11.33	11.33	0.00	1.15	14.70	
1/25/22	14:39	11.29	11.29	0.00	0.04	14.74	*Week prior to Draw Down Event
2/9/22	13:12	11.20	11.20	0.00	0.09	14.83	*Week after Draw Down Event
2/15/22	10:50	11.27	11.27	0.00	-0.07	14.76	*2 Weeks after Draw Down Event
2/23/22	8:21	11.27	11.27	0.00	0.00	14.76	*3 Weeks after Draw Down Event
4/13/22	11:40	11.01	11.01	0.00	0.26	15.02	
5/25/22	8:15	11.11	11.11	0.00	-0.10	14.92	2nd qtr. Sampling event
8/23/22	10:00	11.16	11.16	0.00	-0.05	14.87	3rd qtr sampling event
11/22/22	9:42	11.38	11.38	0.00	-0.22	14.65	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

MDE-3 Top of casing elevation, 13.39'

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:25	2.15	2.15	0.00		11.24	
11/6/19	8:56	2.15	2.15	0.00	0.00	11.24	
2/18/20	9:31	1.54	1.54	0.00	0.61	11.85	
5/19/20	8:31	1.61	1.61	0.00	-0.07	11.78	
8/18/20	8:55	1.40	1.40	0.00	0.21	11.99	
11/18/20	9:05	1.22	1.22	0.00	0.18	12.17	
2/24/21	8:55	0.75	0.75	0.00	0.47	12.64	
5/19/21	10:00	1.63	1.63	0.00	-0.88	11.76	
6/23/19	13:18	1.86	1.86	0.00	-0.23	11.53	
6/30/21	8:29	1.92	1.92	0.00	-0.06	11.47	
7/7/21	8:19	1.84	1.84	0.00	0.08	11.55	
7/14/21	11:08	1.95	1.95	0.00	-0.11	11.44	
7/27/21	9:58	2.10	2.10	0.00	-0.15	11.29	
8/11/21	13:21	2.15	2.15	0.00	-0.05	11.24	
8/24/21	13:15	2.12	2.12	0.00	0.03	11.27	
9/8/21	10:45	1.93	1.93	0.00	0.19	11.46	
9/22/21	9:42	2.13	2.13	0.00	-0.20	11.26	
10/6/21	11:51	2.10	2.10	0.00	0.03	11.29	
10/19/21	12:45	2.17	2.17	0.00	-0.07	11.22	
11/5/21	11:01	1.92	1.92	0.00	0.25	11.47	
11/16/21	7:32	2.05	2.05	0.00	-0.13	11.34	
12/1/21	14:04	2.19	2.19	0.00	-0.14	11.20	
12/15/21	13:22	2.15	2.15	0.00	0.04	11.24	
12/29/22	11:45	2.15	2.15	0.00	0.00	11.24	
1/12/22	14:18	1.61	1.61	0.00	0.54	11.78	
1/25/22	14:47	1.64	1.64	0.00	-0.03	11.75	*Week prior to Draw Down Event
2/9/22	13:17	1.36	1.36	0.00	0.28	12.03	*Week after Draw Down Event
2/15/22	10:54	1.68	1.68	0.00	-0.32	11.71	*2 Weeks after Draw Down Event
2/23/22	8:25	1.71	1.71	0.00	-0.03	11.68	*3 Weeks after Draw Down Event
4/13/22	11:32	1.30	1.30	0.00	0.41	12.09	
5/25/22	8:03	1.51	1.51	0.00	-0.21	11.88	2nd qtr. Sampling event
8/23/22	9:24	1.93	1.93	0.00	-0.42	11.46	3rd qtr sampling event
11/22/22	9:33	1.96	1.96	0.00	-0.03	11.43	4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

TF-1 Top of casing elevation, 28.35'

Tank field observation well (pre-existing), **ONLY 14 ft deep.**

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:03	13.71	13.71	0.00		14.64	
11/6/19	12:10	13.85	13.85	0.00	-0.14	14.50	
2/18/20	13:58	13.79	13.79	0.00	0.06	14.56	
5/19/20	12:06	13.78	13.78	0.00	0.01	14.57	
8/18/20	12:10	13.81	13.81	0.00	-0.03	14.54	
11/19/20	9:26	13.61	13.61	0.00	0.20	14.74	
2/24/21	9:05	13.72	13.72	0.00	-0.11	14.63	
5/19/21	13:18	13.75	13.75	0.00	-0.03	14.60	
6/23/19	13:57	13.76	13.76	0.00	-0.01	14.59	
6/30/21	9:02	13.76	13.76	0.00	0.00	14.59	
7/7/21	9:16	13.76	13.76	0.00	0.00	14.59	
7/14/21	11:40	13.75	13.75	0.00	0.01	14.60	
7/27/21	10:36	13.75	13.75	0.00	0.00	14.60	
8/11/21	12:54	13.76	13.76	0.00	-0.01	14.59	
8/24/21	10:20	13.77	13.77	0.00	-0.01	14.58	
9/8/21	10:09	13.77	13.77	0.00	0.00	14.58	
9/22/21	9:08	13.78	13.78	0.00	-0.01	14.57	
10/6/21	11:25	13.78	13.78	0.00	0.00	14.57	
10/19/21	12:25	13.79	13.79	0.00	-0.01	14.56	
11/5/21	10:25	13.77	13.77	0.00	0.02	14.58	
11/16/21	8:48	13.79	13.79	0.00	-0.02	14.56	
12/1/21	14:41	13.80	13.80	0.00	-0.01	14.55	
12/15/21	12:50	13.80	13.80	0.00	0.00	14.55	
12/29/21	11:08	13.81	13.81	0.00	-0.01	14.54	
1/12/22	15:07	13.83	13.83	0.00	-0.02	14.52	well dry
1/25/22	14:21	13.82	13.82	0.00	0.01	14.53	*Week prior to Draw Down Event
2/23/22	7:38	13.99	13.99	0.00	-0.17	14.36	
4/13/22	11:48	13.57	13.57	0.00	0.42	14.78	
5/25/22	8:45	13.77	13.77	0.00	-0.20	14.58	2nd qtr. Sampling event
8/23/22	10:18	14.00	14.00	0.00	-0.23	14.35	Dry, 3rd qtr sampling event
11/22/22	8:40	14.00	14.00	0.00	0.00	14.35	Dry, 4th qtr sampling event

Bates Middle School- Monitoring Well Gauging Table

TF-2 Top of casing elevation, 27.90'

Tank field observation well, completed from MW-9

Date	Time	Depth to Liquid (ft.)	Depth to Water (ft.)	LPH thickness (ft.)	Δ GW Elev. (+/- ft.)	GW Elevation	Comment
8/6/19	12:02	18.59	18.59	0.00		9.31	
11/6/19	7:52	18.50	18.50	0.00	0.09	9.40	
2/18/20	14:14	17.82	17.82	0.00	0.68	10.08	
5/19/20	11:55	17.90	17.90	0.00	-0.08	10.00	
8/18/20	12:15	17.84	17.84	0.00	0.06	10.06	
11/19/20	9:29	17.63	17.63	0.00	0.21	10.27	
2/24/21	9:07	17.74	17.74	0.00	-0.11	10.16	
5/19/21	13:25	17.99	17.99	0.00	-0.25	9.91	
6/23/19	14:00	18.30	18.30	0.00	-0.31	9.60	
6/30/21	8:59	18.39	18.39	0.00	-0.09	9.51	
7/7/21	9:05	18.35	18.35	0.00	0.04	9.55	
7/14/21	11:39	18.44	18.44	0.00	-0.09	9.46	
7/27/21	10:34	18.59	18.59	0.00	-0.15	9.31	
8/11/21	12:52	18.67	18.67	0.00	-0.08	9.23	
8/24/21	10:25	18.53	18.53	0.00	0.14	9.37	
9/8/21	10:12	18.45	18.45	0.00	0.08	9.45	
9/22/21	9:06	18.61	18.61	0.00	-0.16	9.29	
10/6/21	11:26	18.58	18.58	0.00	0.03	9.32	
10/19/21	12:22	18.62	18.62	0.00	-0.04	9.28	
11/5/21	10:24	18.40	18.40	0.00	0.22	9.50	
11/16/21	8:53	18.44	18.44	0.00	-0.04	9.46	
12/1/21	14:45	18.53	18.53	0.00	-0.09	9.37	
12/15/21	12:52	18.50	18.50	0.00	0.03	9.40	
12/29/21	11:06	18.51	18.51	0.00	-0.01	9.39	
1/12/22	15:00	18.04	18.04	0.00	0.47	9.86	
1/25/22	14:20	18.09	18.09	0.00	-0.05	9.81	*Week prior to Draw Down Event
2/9/22	12:53	17.94	17.94	0.00	0.15	9.96	*Week after Draw Down Event
2/15/22	10:18	18.12	18.12	0.00	-0.18	9.78	*2 Weeks after Draw Down Event
2/23/22	7:39	18.17	18.17	0.00	-0.05	9.73	*3 Weeks after Draw Down Event
4/13/22	11:45	17.79	17.79	0.00	0.38	10.11	
5/25/22	8:37	18.03	18.03	0.00	-0.24	9.87	2nd qtr sampling event
8/23/22	10:19	18.56	18.56	0.00	-0.53	9.34	3rd qtr sampling event
11/22/22	8:42	18.40	18.40	0.00	0.16	9.50	4th qtr sampling event

Maryland spectral Services

Analytical Chemistry Services

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

08 December 2022

Scott Alexander
Petroleum Management, Inc.
1030 East Patapsco Ave.
Baltimore, MD 21225
RE: Bates Middle School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/22 11:25.

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,

Rabecka Koons
Quality Assurance Officer

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:
12/08/22 16:39

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MDE-1		2112315-01	Nonpotable Water	11/23/22 09:20	11/23/22 11:25
MDE-2		2112315-02	Nonpotable Water	11/23/22 10:25	11/23/22 11:25
MDE-3		2112315-03	Nonpotable Water	11/23/22 09:15	11/23/22 11:25
MW-3		2112315-04	Nonpotable Water	11/23/22 10:02	11/23/22 11:25
MW-4		2112315-05	Nonpotable Water	11/23/22 10:15	11/23/22 11:25
MW-5		2112315-06	Nonpotable Water	11/23/22 09:48	11/23/22 11:25
MW-6		2112315-07	Nonpotable Water	11/23/22 10:09	11/23/22 11:25
MW-7		2112315-08	Nonpotable Water	11/23/22 10:31	11/23/22 11:25
MW-8		2112315-09	Nonpotable Water	11/23/22 09:58	11/23/22 11:25
MW-10		2112315-10	Nonpotable Water	11/23/22 10:20	11/23/22 11:25
TF-2		2112315-11	Nonpotable Water	11/23/22 09:34	11/23/22 11:25

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.

Rabecka Koons, Quality Assurance Officer

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:
12/08/22 16:39

MDE-1

2112315-01 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:16	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 12:16	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:16	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 12:16	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:16	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:16	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:16	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-1

2112315-01 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:16	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:16	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:16	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 12:16	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-1

2112315-01 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:16	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*109 %*	*11/28/22*		*11/28/22 12:16*		
Surrogate: Toluene-d8			*75-120*	*95 %*	*11/28/22*		*11/28/22 12:16*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*97 %*	*11/28/22*		*11/28/22 12:16*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 12:10	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*100 %*	*11/29/22*		*11/29/22 12:10*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.04	0.04	1	11/28/22	12/06/22 14:34	EH
Surrogate: o-Terphenyl			*60-120*	*85 %*	*11/28/22*		*12/06/22 14:34*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.24	0.24	1	11/28/22	11/28/22 19:29	EH
Surrogate: o-Terphenyl			*60-120*	*92 %*	*11/28/22*		*11/28/22 19:29*		

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Rebecka Koons

Rabecka Koons, Quality Assurance Officer

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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:
12/08/22 16:39

MDE-2

2112315-02 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:40	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 12:40	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:40	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 12:40	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:40	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:40	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 12:40	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-2

2112315-02 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:40	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:40	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 12:40	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 12:40	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-2

2112315-02 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 12:40	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*105 %*	*11/28/22*		*11/28/22 12:40*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*11/28/22*		*11/28/22 12:40*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*98 %*	*11/28/22*		*11/28/22 12:40*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 12:36	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*100 %*	*11/29/22*		*11/29/22 12:36*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.04**		mg/L	0.03	0.03	1	11/28/22	12/06/22 14:58	EH
Surrogate: o-Terphenyl			*60-120*	*87 %*	*11/28/22*		*12/06/22 14:58*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	11/28/22	11/28/22 19:56	EH
Surrogate: o-Terphenyl			*60-120*	*99 %*	*11/28/22*		*11/28/22 19:56*		

Rebecka Koons

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-3

2112315-03 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:05	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 13:05	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:05	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 13:05	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:05	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:05	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:05	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-3

2112315-03 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:05	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:05	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:05	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 13:05	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MDE-3

2112315-03 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:05	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*107 %*	*11/28/22*		*11/28/22 13:05*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*11/28/22*		*11/28/22 13:05*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*95 %*	*11/28/22*		*11/28/22 13:05*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 13:03	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 13:03*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.03	0.03	1	11/28/22	12/06/22 15:23	EH
Surrogate: o-Terphenyl			*60-120*	*90 %*	*11/28/22*		*12/06/22 15:23*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	11/28/22	11/28/22 20:23	EH
Surrogate: o-Terphenyl			*60-120*	*93 %*	*11/28/22*		*11/28/22 20:23*		

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-3

2112315-04 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:30	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 13:30	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:30	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 13:30	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:30	LL
n-Butylbenzene	**2.4**		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
sec-Butylbenzene	**1.2**	J	ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:30	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:30	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL

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Rebecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-3

2112315-04 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:30	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:30	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:30	LL
Naphthalene	**3.1**		ug/L	2.0	2.0	1	11/28/22	11/28/22 13:30	LL
n-Propylbenzene	**1.5**	J	ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-3

2112315-04 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	**11.3**		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
1,3,5-Trimethylbenzene	**2.9**		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:30	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*107 %*	*11/28/22*		*11/28/22 13:30*		
Surrogate: Toluene-d8			*75-120*	*98 %*	*11/28/22*		*11/28/22 13:30*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*96 %*	*11/28/22*		*11/28/22 13:30*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 13:29	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*100 %*	*11/29/22*		*11/29/22 13:29*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**3.10**		mg/L	0.23	0.23	1	11/28/22	11/28/22 21:16	EH
Surrogate: o-Terphenyl			*60-120*	*110 %*	*11/28/22*		*11/28/22 21:16*		

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-4

2112315-05 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:55	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 13:55	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:55	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 13:55	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:55	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:55	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 13:55	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-4

2112315-05 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:55	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:55	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 13:55	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 13:55	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-4

2112315-05 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 13:55	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*106 %*	*11/28/22*		*11/28/22 13:55*		
Surrogate: Toluene-d8			*75-120*	*99 %*	*11/28/22*		*11/28/22 13:55*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*98 %*	*11/28/22*		*11/28/22 13:55*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 13:56	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*100 %*	*11/29/22*		*11/29/22 13:56*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.09**		mg/L	0.04	0.04	1	11/28/22	12/06/22 15:48	EH
Surrogate: o-Terphenyl			*60-120*	*87 %*	*11/28/22*		*12/06/22 15:48*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.24	0.24	1	11/28/22	11/28/22 21:43	EH
Surrogate: o-Terphenyl			*60-120*	*92 %*	*11/28/22*		*11/28/22 21:43*		

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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:
12/08/22 16:39

MW-5

2112315-06 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:19	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 14:19	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:19	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 14:19	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:19	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:19	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:19	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL

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Rabecka Koons, Quality Assurance Officer

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

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-5

2112315-06 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:19	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:19	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:19	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 14:19	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-5

2112315-06 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:19	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*106 %*	*11/28/22*		*11/28/22 14:19*		
Surrogate: Toluene-d8			*75-120*	*98 %*	*11/28/22*		*11/28/22 14:19*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*95 %*	*11/28/22*		*11/28/22 14:19*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 14:22	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 14:22*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.05**		mg/L	0.04	0.04	1	11/28/22	12/06/22 16:12	EH
Surrogate: o-Terphenyl			*60-120*	*84 %*	*11/28/22*		*12/06/22 16:12*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.25	0.25	1	11/28/22	11/28/22 22:10	EH
Surrogate: o-Terphenyl			*60-120*	*94 %*	*11/28/22*		*11/28/22 22:10*		

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-6

2112315-07 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:44	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 14:44	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:44	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 14:44	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:44	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:44	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 14:44	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-6

2112315-07 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:44	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:44	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 14:44	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 14:44	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL

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Rebecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-6

2112315-07 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 14:44	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*105 %*	*11/28/22*		*11/28/22 14:44*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*11/28/22*		*11/28/22 14:44*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*97 %*	*11/28/22*		*11/28/22 14:44*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 14:49	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 14:49*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LV1 Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.09**		mg/L	0.03	0.03	1	11/28/22	12/06/22 16:37	EH
Surrogate: o-Terphenyl			*60-120*	*88 %*	*11/28/22*		*12/06/22 16:37*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	11/28/22	11/28/22 22:37	EH
Surrogate: o-Terphenyl			*60-120*	*93 %*	*11/28/22*		*11/28/22 22:37*		

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-7

2112315-08 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:09	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 15:09	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:09	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 15:09	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:09	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:09	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:09	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-7

2112315-08 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:09	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:09	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:09	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 15:09	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL

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Rabecka Koons, Quality Assurance Officer

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:
12/08/22 16:39

MW-7

2112315-08 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:09	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*106 %*	*11/28/22*		*11/28/22 15:09*		
Surrogate: Toluene-d8			*75-120*	*98 %*	*11/28/22*		*11/28/22 15:09*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*96 %*	*11/28/22*		*11/28/22 15:09*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 15:15	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 15:15*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.05**		mg/L	0.03	0.03	1	11/28/22	12/06/22 17:01	EH
Surrogate: o-Terphenyl			*60-120*	*87 %*	*11/28/22*		*12/06/22 17:01*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	11/28/22	11/28/22 23:03	EH
Surrogate: o-Terphenyl			*60-120*	*93 %*	*11/28/22*		*11/28/22 23:03*		

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Rebecka Koons

Rabecka Koons, Quality Assurance Officer

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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:
12/08/22 16:39

MW-8

2112315-09 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:33	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 15:33	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:33	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 15:33	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:33	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:33	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:33	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-8

2112315-09 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:33	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:33	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:33	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 15:33	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-8

2112315-09 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:33	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*106 %*	*11/28/22*		*11/28/22 15:33*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*11/28/22*		*11/28/22 15:33*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*97 %*	*11/28/22*		*11/28/22 15:33*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 15:42	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 15:42*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.11**		mg/L	0.03	0.03	1	11/28/22	12/06/22 17:26	EH
Surrogate: o-Terphenyl			*60-120*	*87 %*	*11/28/22*		*12/06/22 17:26*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.23	0.23	1	11/28/22	11/28/22 23:30	EH
Surrogate: o-Terphenyl			*60-120*	*92 %*	*11/28/22*		*11/28/22 23:30*		

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-10

2112315-10 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:58	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 15:58	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:58	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 15:58	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:58	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:58	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 15:58	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-10

2112315-10 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:58	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:58	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 15:58	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 15:58	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

MW-10

2112315-10 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 15:58	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*106 %*	*11/28/22*		*11/28/22 15:58*		
Surrogate: Toluene-d8			*75-120*	*97 %*	*11/28/22*		*11/28/22 15:58*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*98 %*	*11/28/22*		*11/28/22 15:58*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 16:08	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 16:08*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.05**		mg/L	0.04	0.04	1	11/28/22	12/06/22 17:51	EH
Surrogate: o-Terphenyl			*60-120*	*89 %*	*11/28/22*		*12/06/22 17:51*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.27	0.27	1	11/28/22	11/28/22 23:57	EH
Surrogate: o-Terphenyl			*60-120*	*96 %*	*11/28/22*		*11/28/22 23:57*		

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

TF-2

2112315-11 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES									
Acetone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 16:22	LL
tert-Amyl alcohol (TAA)	ND		ug/L	20.0	20.0	1	11/28/22	11/28/22 16:22	LL
tert-Amyl methyl ether (TAME)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Benzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Bromobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Bromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Bromodichloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Bromoform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Bromomethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 16:22	LL
tert-Butanol (TBA)	ND		ug/L	15.0	15.0	1	11/28/22	11/28/22 16:22	LL
2-Butanone (MEK)	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 16:22	LL
n-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
sec-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
tert-Butylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Carbon disulfide	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Carbon tetrachloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Chlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Chloroethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 16:22	LL
Chloroform	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Chloromethane	ND		ug/L	5.0	5.0	1	11/28/22	11/28/22 16:22	LL
2-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
4-Chlorotoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Dibromochloromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2-Dibromoethane (EDB)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Dibromomethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,3-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,4-Dichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Dichlorodifluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2-Dichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

TF-2

2112315-11 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
cis-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
trans-1,2-Dichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Dichlorofluoromethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,3-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
2,2-Dichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
cis-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
trans-1,3-Dichloropropene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Diisopropyl ether (DIPE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Ethyl tert-butyl ether (ETBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Ethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Hexachlorobutadiene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
2-Hexanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 16:22	LL
Isopropylbenzene (Cumene)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
4-Isopropyltoluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
4-Methyl-2-pentanone	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 16:22	LL
Methylene chloride	ND		ug/L	10.0	10.0	1	11/28/22	11/28/22 16:22	LL
Naphthalene	ND		ug/L	2.0	2.0	1	11/28/22	11/28/22 16:22	LL
n-Propylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Styrene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Tetrachloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Toluene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2,3-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2,4-Trichlorobenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1,1-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,1,2-Trichloroethane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Trichloroethene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Trichlorofluoromethane (Freon 11)	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,2,3-Trichloropropane	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL

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Rabecka Koons, Quality Assurance Officer

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Analytical Results

Project: Bates Middle School

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

Reported:
12/08/22 16:39

TF-2

2112315-11 (Nonpotable Water)
Sample Date: 11/23/22

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260B (GC/MS) Prepared by GCMS-WATER-VOLATILES (continued)									
1,2,4-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
1,3,5-Trimethylbenzene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Vinyl chloride	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
o-Xylene	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
m- & p-Xylenes	ND		ug/L	2.0	1.0	1	11/28/22	11/28/22 16:22	LL
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*107 %*	*11/28/22*		*11/28/22 16:22*		
Surrogate: Toluene-d8			*75-120*	*98 %*	*11/28/22*		*11/28/22 16:22*		
Surrogate: 4-Bromofluorobenzene			*75-120*	*96 %*	*11/28/22*		*11/28/22 16:22*		
GASOLINE RANGE ORGANICS BY EPA 8015C Prepared by GC-WATER-VOLATILES									
Gasoline-Range Organics	ND		ug/L	100	45.0	1	11/29/22	11/29/22 16:35	RH
Surrogate: a,a,a-Trifluorotoluene [2C]			*85-115*	*101 %*	*11/29/22*		*11/29/22 16:35*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C-LVI Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	**0.10**		mg/L	0.03	0.03	1	11/28/22	12/06/22 18:15	EH
Surrogate: o-Terphenyl			*60-120*	*88 %*	*11/28/22*		*12/06/22 18:15*		
DIESEL RANGE ORGANICS BY EPA 3510/8015C Prepared by 3510-GC(Sep Funnel)									
Diesel-Range Organics (C10-C28)	ND		mg/L	0.22	0.22	1	11/28/22	11/29/22 00:24	EH
Surrogate: o-Terphenyl			*60-120*	*101 %*	*11/28/22*		*11/29/22 00:24*		

Rebecka Koons

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Rabecka Koons, Quality Assurance Officer

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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:
12/08/22 16:39

Notes and Definitions

J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
RE	Sample reanalyses are done at the laboratory's discretion as a mechanism to improve data quality. Any client requested reanalysis will be identified with a sample qualifier.
ND	Analyte NOT DETECTED at or above the reporting limit
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 accredidation

If this report contains any samples analyzed for gasoline range organics (GRO) by EPA Method 8015C and no trip blank was shipped, stored, and received with the sample(s) as required by Section 3.1 of the EPA Method, the sample analysis contained in this report cannot exclude the possibility that any reportable GRO measurement was due to environmental contamination of the sample during shipping or storage.

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Rabecka Koons

Rabecka Koons, Quality Assurance Officer

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★ Note: TPH Detection Limit ≥ 47 ug/L

Company Name: Petroleum Management, Inc.	Project Manager: Scott Alexander							Analysis Requested										CHAIN-OF-CUSTODY RECORD
Project Name: Bates Middle School	Project ID: 701 Chase St. Annapolis, MD																	Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com
Sampler(s): S. Alexander	P.O. Number:																	Matrix Codes: NW (nonpotable water) PW (potable water)
Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	TPH-DRO (SGC-S)	TPH-GRO	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	11/23/22	9:26	x			3	x	x	x									1+1 HCL/ICE		2112315-01
MDE-2		10:25	x			3														-02
MDE-3		~~9:15~~	x			3														-03
MW-3		10:02	x			3														-04
MW-4		10:15	x			3														-05
MW-5		9:48	x			3														-06
MW-6		10:09	x			3														-07
MW-7		10:31	x			3														-08
MW-8		9:58	x			3														-09
MW-10		10:20	x			3														-10
Relinquished by: (Signature) TF-2	Date/Time	4:34	Received by: (Signature) x			3	x	x	x									Relinquished by: (Signature)	Date/Time	Received by: (Signature) -11
(Printed)			(Printed)															(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time 11/23/22 11:25		Received by Lab: (Signature)															Turn Around Time: ☑ Normal (7 day) ☐ 5 day ☐ 4 day ☐ 3 day ☐ Rush (2 day) ☐ Next Day ☐ Other: ____ ☐ Specific Due Date: ____	Lab Use: Temp: 2.4 °C ☑ Received on Ice ☑ Received same day ☐ Preservation Appropriate	
(Printed) S. Alexander			(Printed) Lori Foster																	
Delivery Method: ☐ Courier ☐ Client ☐ UPS ☐ FedEx ☐ USPS ☐ Other:____	Special Instructions/QC Requirements & Comments: 4th Qtr. 2022 Sampling 11:27 MDE Case # 18-0559 AA 11-23-22																	Sample Disposal: ☐ Return to Client ☐ Disposal by lab ☐ Archive for ____ days		