



# CERTIFICATE OF ANALYSIS

**Chain of Custody:** 620928  
**Client:** Howard County Public School System  
**Address:** 10910 Route 108  
Ellicott City, MD 21042  
**Attention:** Jeff Klenk

**Job Name:** Veterans Elementary School  
**Job Location:** 4355 Montgomery Road, Ellicott City,  
MD 21043  
**Job Number:** 13.084  
**P.O. Number:** Not Provided

**Date Submitted:** 03/06/2020  
**Date Analyzed:** 03/10/2020  
**Report Date:** 03/12/2020  
**Date Sampled:** 02/26/2020 - 02/27/2020  
**Person Submitting:** Jeff Klenk

## Summary of Drinking Water Analysis for Metals

AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
620928-1	VES 2	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-2	VES 3	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-3	VES 4	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-4	VES 5F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-5	VES 6F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-6	VES 7F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-7	VES 8F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-8	VES 9F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-9	VES 10	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-10	VES 12F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-11	VES 13F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-12	VES 14F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-13	VES 15F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-14	VES 16	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-15	VES 17F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-16	VES 18F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-17	VES 19F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-18	VES 20F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-19	VES 21F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-20	VES 22F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620928-21	VES 23F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-22	VES 24F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-23	VES 25	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-24	VES 28F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-25	VES 29	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-26	VES 30F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-27	VES 31F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-28	VES 32F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-29	VES 33F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-30	VES 34F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-31	VES 35F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-32	VES 36F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-33	VES 37F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-34	VES 40F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-35	VES 41F	02/26/2020 5:11 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-36	VES 45	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-37	VES 46	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-38	VES 57	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-39	VES 63	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-40	VES 70	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620928-41	VES 76	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-42	VES 84	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-43	VES 85	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-44	VES 88	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-45	VES 89	02/26/2020 5:11 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620928-46	VES 1	02/27/2020 5:12 am	KS	ICP	Lead	0.5 ug/L	3.3 ug/L	
620928-47	VES 5S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	0.9 ug/L	
620928-48	VES 6S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-49	VES 7S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-50	VES 8S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	0.68 ug/L	
620928-51	VES 9S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.3 ug/L	
620928-52	VES 11	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-53	VES 12S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	2 ug/L	
620928-54	VES 13S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-55	VES 14S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	3.8 ug/L	
620928-56	VES 15S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.9 ug/L	
620928-57	VES 17S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-58	VES 18S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-59	VES 19S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
620928-60	VES 20S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.7 ug/L	



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		Date/Time	Location					
620928-61	VES 21S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	8.9 ug/L	
620928-62	VES 22S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	0.59 ug/L	
620928-63	VES 23S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
620928-64	VES 24S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	0.92 ug/L	
620928-65	VES 26	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	0.75 ug/L	
620928-66	VES 27	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.9 ug/L	
620928-67	VES 28S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.7 ug/L	
620928-68	VES 30S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-69	VES 31S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
620928-70	VES 32S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	2.5 ug/L	
620928-71	VES 33S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-72	VES 34S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.4 ug/L	
620928-73	VES 35S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-74	VES 36S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.3 ug/L	
620928-75	VES 37S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.9 ug/L	
620928-76	VES 38	02/27/2020 5:12 am	NO	ICP	Lead	0.5 ug/L	0.56 ug/L	
620928-77	VES 39	02/27/2020 5:12 am	OT.2	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-78	VES 40S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	2.2 ug/L	
620928-79	VES 41S	02/27/2020 5:12 am	CC/S	ICP	Lead	0.5 ug/L	1.6 ug/L	
620928-80	VES 42	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	1.6 ug/L	



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620928-81	VES 47	02/27/2020 5:12 am	OT.7	ICP	Lead	0.5 ug/L	1.4 ug/L	
620928-82	VES 48	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.5 ug/L	
620928-83	VES 49	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	1.3 ug/L	
620928-84	VES 52	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.1 ug/L	
620928-85	VES 53	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.89 ug/L	
620928-86	VES 54	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.2 ug/L	
620928-87	VES 55	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.93 ug/L	
620928-88	VES 56	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.4 ug/L	
620928-89	VES 58	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	2.1 ug/L	
620928-90	VES 59	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.66 ug/L	
620928-91	VES 60	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.6 ug/L	
620928-92	VES 61	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	2.3 ug/L	
620928-93	VES 62	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.97 ug/L	
620928-94	VES 64	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.6 ug/L	
620928-95	VES 65	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	2 ug/L	
620928-96	VES 66	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.8 ug/L	
620928-97	VES 67	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.67 ug/L	
620928-98	VES 68	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1 ug/L	
620928-99	VES 69	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.8 ug/L	
620928-100	VES 71	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.5 ug/L	



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620928-101	VES 72	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.87 ug/L	
620928-102	VES 73	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.75 ug/L	
620928-103	VES 74	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1 ug/L	
620928-104	VES 75	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.3 ug/L	
620928-105	VES 77	02/27/2020 5:12 am	TL	ICP	Lead	0.5 ug/L	1.3 ug/L	
620928-106	VES 78	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	2.6 ug/L	
620928-107	VES 79	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.79 ug/L	
620928-108	VES 80	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1.9 ug/L	
620928-109	VES 81	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.8 ug/L	
620928-110	VES 82	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	1 ug/L	
620928-111	VES 83	02/27/2020 5:12 am	CR	ICP	Lead	0.5 ug/L	0.64 ug/L	
620928-112	VES 86	02/27/2020 5:12 am	OT.5	ICP	Lead	0.5 ug/L	7.1 ug/L	
620928-113	VES 87	02/27/2020 5:12 am	OT.5	ICP	Lead	0.5 ug/L	1.4 ug/L	



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**Analysis Methods:** Flame AA: APHA SM3111B (1999, 22nd Ed.), Furnace AA: APHA SM3113B (2010, 22nd Ed.), ICP: EPA 200.8 (Rev. 5.4)

mg/L = Parts Per Million (ppm), N/A = Not Applicable, µg/L = Parts Per Billion, N/P = Not Provided

**Analyst(s):** Jean-Paul Littleton

**Sample Collector:** Jeff Klenk  
**Certification:**

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

**Technical Director** George Land

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