



CERTIFICATE OF ANALYSIS

Chain of Custody: 618729
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Elkridge Landing Middle
Job Location: 7085 Montgomery Road, Elkridge
20175
Job Number: 13.054
P.O. Number: Not Provided

Date Submitted: 11/06/2019
Date Analyzed: 11/14/2019
Report Date: 11/14/2019
Date Sampled: 10/30/2019 - 10/31/2019
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					
618729-1	ELMS 3 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-2	ELMS 8 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-3	ELMS 9 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-4	ELMS 10 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-5	ELMS 12 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-6	ELMS 20 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-7	ELMS 23 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-8	ELMS 24S FD	10/30/2019 5:07 am	CC/S	ICP	Lead	0.5 ug/L	3.6 ug/L	
618729-9	ELMS 28F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	1.3 ug/L	
618729-10	ELMS 29 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-11	ELMS 31F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	0.73 ug/L	
618729-12	ELMS 32 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-13	ELMS 33F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	0.85 ug/L	
618729-14	ELMS 34F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	0.59 ug/L	
618729-15	ELMS 35 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-16	ELMS 36F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	0.62 ug/L	
618729-17	ELMS 37F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	1.4 ug/L	
618729-18	ELMS 38F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	1.6 ug/L	
618729-19	ELMS 39F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	1.4 ug/L	
618729-20	ELMS 40F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	3.9 ug/L	



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618729-21	ELMS 41 FD	10/30/2019 5:07 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
618729-22	ELMS 27F FD	10/30/2019 5:07 am	CC/B	ICP	Lead	0.5 ug/L	1.4 ug/L	
618729-23	ELMS 1 FD	10/31/2019 5:05 am	OT.2	ICP	Lead	0.5 ug/L	6.9 ug/L	
618729-24	ELMS 2 FD	10/31/2019 5:05 am	NO	ICP	Lead	0.5 ug/L	3.3 ug/L	
618729-25	ELMS 4 FD	10/31/2019 5:05 am	TL	ICP	Lead	0.5 ug/L	0.51 ug/L	
618729-26	ELMS 5 FD	10/31/2019 5:05 am	KS	ICP	Lead	0.5 ug/L	1.2 ug/L	
618729-27	ELMS 6 FD	10/31/2019 5:05 am	KK	ICP	Lead	0.5 ug/L	5.7 ug/L	
618729-28	ELMS 7 FD	10/31/2019 5:05 am	IM	ICP	Lead	0.5 ug/L	1.2 ug/L	
618729-29	ELMS 13 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	5.8 ug/L	
618729-30	ELMS 14 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	4.1 ug/L	
618729-31	ELMS 15 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	4.3 ug/L	
618729-32	ELMS 16 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	4.1 ug/L	
618729-33	ELMS 17 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	5 ug/L	
618729-34	ELMS 18 FD	10/31/2019 5:05 am	HE	ICP	Lead	0.5 ug/L	3.2 ug/L	
618729-35	ELMS 19 FD	10/31/2019 5:05 am	OT.5	ICP	Lead	0.5 ug/L	110 ug/L	110.1 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
618729-36	ELMS 21 FD	10/31/2019 5:05 am	OT.6	ICP	Lead	0.5 ug/L	33 ug/L	33.1 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
618729-37	ELMS 22 FD	10/31/2019 5:05 am	OT.6	ICP	Lead	0.5 ug/L	13 ug/L	12.7 ug/L.
618729-38	ELMS 24F FD	10/31/2019 5:05 am	CC/B	ICP	Lead	0.5 ug/L	12 ug/L	12.2 ug/L.
618729-39	ELMS 25 FD	10/31/2019 5:05 am	OT.6	ICP	Lead	0.5 ug/L	12 ug/L	11.6 ug/L.



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		Date/Time	Location					
618729-40	ELMS 26 FD	10/31/2019 5:05 am	OT.6	ICP	Lead	0.5 ug/L	15 ug/L	15.3 ug/L.
618729-41	ELMS 27S FD	10/31/2019 5:05 am	CR	ICP	Lead	0.5 ug/L	0.8 ug/L	
618729-42	ELMS 28S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
618729-43	ELMS 30 FD	10/31/2019 5:05 am	OT.7	ICP	Lead	0.5 ug/L	5.3 ug/L	
618729-44	ELMS 31S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	0.74 ug/L	
618729-45	ELMS 33S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1.3 ug/L	
618729-46	ELMS 34S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1.1 ug/L	
618729-47	ELMS 36S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1 ug/L	
618729-48	ELMS 37S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1.3 ug/L	
618729-49	ELMS 38S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	3 ug/L	
618729-50	ELMS 39S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	1.6 ug/L	
618729-51	ELMS 40S FD	10/31/2019 5:05 am	CC/S	ICP	Lead	0.5 ug/L	6 ug/L	
618729-52	ELMS 11 FD	10/31/2019 5:05 am	CR	ICP	Lead	0.5 ug/L	7.2 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 G. Edward Carney

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