



CERTIFICATE OF ANALYSIS

Chain of Custody: 617979

Client: Howard County Public School System

Address: 10910 Route 108
Ellicott City, MD 21042

Attention: Jeff Klenk

Job Name: Lime Kiln Middle

Job Location: 11650 Scaggsville Road, Fulton, MD
20759

Job Number: 13.070

P.O. Number: Not Provided

Date Submitted: 10/04/2019

Date Analyzed: 10/09/2019

Report Date: 10/10/2019

Date Sampled: 10/03/2019

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					
617979-1	LKMS 1 FD	10/03/2019 5:13 am	NO	Furnace AA	Lead	1 ug/L	1.1 ug/L	
617979-2	LKMS 2 FD	10/03/2019 5:13 am	OT.2	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-3	LKMS 3 FD	10/03/2019 5:13 am	TL	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-4	LKMS 4 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-5	LKMS 5 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	1.1 ug/L	
617979-6	LKMS 6 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-7	LKMS 7 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-8	LKMS 8 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-9	LKMS 9 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-10	LKMS 10 FD	10/03/2019 5:13 am	HE	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-11	LKMS 11 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-12	LKMS 12 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-13	LKMS 13 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-14	LKMS 14 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-15	LKMS 15 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-16	LKMS 16 FD	10/03/2019 5:13 am	KS	Furnace AA	Lead	1 ug/L	5.7 ug/L	
617979-17	LKMS 17 FD	10/03/2019 5:13 am	KS	Furnace AA	Lead	1 ug/L	4 ug/L	
617979-18	LKMS 18 FD	10/03/2019 5:13 am	KK	Furnace AA	Lead	1 ug/L	1.5 ug/L	
617979-19	LKMS 19 FD	10/03/2019 5:13 am	IM	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-20	LKMS 20 FD	10/03/2019 5:13 am	KS	Furnace AA	Lead	1 ug/L	1.4 ug/L	



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		Date/Time	Location					
617979-21	LKMS 21 FD	10/03/2019 5:13 am	OT.4	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-22	LKMS 22 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-23	LKMS 23 FD	10/03/2019 5:13 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-24	LKMS 24 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-25	LKMS 25 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	18 ug/L	18.4 ug/L.
617979-26	LKMS 26 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	5.1 ug/L	
617979-27	LKMS 27 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	98 ug/L	98.3 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
617979-28	LKMS 28 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	8.8 ug/L	
617979-29	LKMS 29 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-30	LKMS 30 FD	10/03/2019 5:13 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-31	LKMS 31 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-32	LKMS 33 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-33	LKMS 34 FD	10/03/2019 5:13 am	OT.7	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-34	LKMS 35 FD	10/03/2019 5:13 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-35	LKMS 36 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-36	LKMS 37 FD	10/03/2019 5:13 am	TL	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-37	LKMS 38 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	24 ug/L	23.9 ug/L. This sample has an elevated level of lead (above 20.5 ppb).
617979-38	LKMS 39 FD	10/03/2019 5:13 am	OT.6	Furnace AA	Lead	1 ug/L	5.8 ug/L	
617979-39	LKMS 40 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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Attention: Jeff Klenk	P.O. Number: Not Provided	Date Sampled: 10/03/2019
		Person Submitting: Jeff Klenk

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		Date/Time	Location					
617979-40	LKMS 41 FD	10/03/2019 5:13 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-41	LKMS 42 FD	10/03/2019 5:13 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
617979-42	LKMS 43 FD	10/03/2019 5:13 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	

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

Sample Collector: Jeff Klenk

Certification:

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

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

Analyst(s): Suphin Chinnapad

Technical Director G. Edward Carney

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