



CERTIFICATE OF ANALYSIS

Chain of Custody: 620642
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Thunder Hill Elementary School
Job Location: 9357 Mellenbrook Road, Columbia MD
21045
Job Number: 13.075
P.O. Number: Not Provided

Date Submitted: 02/21/2020
Date Analyzed: 02/24/2020
Report Date: 02/28/2020
Date Sampled: 02/13/2020 - 02/14/2020
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					
620642-1	THES 3 FD	02/13/2020 5:30 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-2	THES 4 FD	02/13/2020 5:30 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-3	THES 5F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-4	THES 6F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-5	THES 7F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-6	THES 8F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-7	THES 9F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-8	THES 10F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-9	THES 11F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-10	THES 12F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-11	THES 13 FD	02/13/2020 5:30 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-12	THES 15F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-13	THES 16F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-14	THES 17F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-15	THES 20F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-16	THES 21F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-17	THES 22F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-18	THES 23F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-19	THES 24F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-20	THES 25F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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620642-21	THES 26F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-22	THES 27F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-23	THES 29F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-24	THES 30F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-25	THES 31F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-26	THES 33 FD	02/13/2020 5:30 am	DF/C	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-27	THES 35F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-28	THES 36F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-29	THES 37F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-30	THES 38F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-31	THES 40F FD	02/13/2020 5:30 am	CC/B	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-32	THES 1 FD	02/14/2020 5:30 am	KS	Furnace AA	Lead	1 ug/L	8.1 ug/L	
620642-33	THES 2 FD	02/14/2020 5:30 am	KS	Furnace AA	Lead	1 ug/L	11 ug/L	
620642-34	THES 5S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-35	THES 6S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-36	THES 7S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-37	THES 8S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-38	THES 9S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-39	THES 10S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-40	THES 11S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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		Date/Time	Location					
620642-41	THES 12S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-42	THES 14 FD	02/14/2020 5:30 am	TL	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-43	THES 15S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-44	THES 16S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-45	THES 17S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-46	THES 18 FD	02/14/2020 5:30 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-47	THES 20S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-48	THES 21S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-49	THES 22S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-50	THES 23S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-51	THES 24S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-52	THES 25S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-53	THES 26S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-54	THES 27S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-55	THES 28 FD	02/14/2020 5:30 am	CR	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-56	THES 29S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-57	THES 30S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-58	THES 31S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-59	THES 32 FD	02/14/2020 5:30 am	TL	Furnace AA	Lead	1 ug/L	1.2 ug/L	
620642-60	THES 35S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	



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		Date/Time	Location					
620642-61	THES 36S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-62	THES 37S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-63	THES 38S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-64	THES 39 FD	02/14/2020 5:30 am	OT.7	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-65	THES 40S FD	02/14/2020 5:30 am	CC/S	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-66	THES 41 FD	02/14/2020 5:30 am	TL	Furnace AA	Lead	1 ug/L	< 1 ug/L	
620642-67	THES 42 FD	02/14/2020 5:30 am	NO	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, µg/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 George Land

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