



CERTIFICATE OF ANALYSIS

Chain of Custody: 620384
Client: Howard County Public School System
Address: 10910 Route 108
Ellicott City, MD 21042
Attention: Jeff Klenk

Job Name: Swansfield Elementary School
Job Location: 5610 Cedar Lane, Columbia MD
21044
Job Number: 13.023
P.O. Number: Not Provided

Date Submitted: 02/07/2020
Date Analyzed: 02/12/2020
Report Date: 02/14/2020
Date Sampled: 02/06/2020 - 02/07/2020
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					
620384-1	SWES 3F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-2	SWES 4F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-3	SWES 5 FD	02/06/2020 5:12 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-4	SWES 6 FD	02/06/2020 5:12 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-5	SWES 8F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-6	SWES 9F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-7	SWES 10F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-8	SWES 11F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-9	SWES 12F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-10	SWES 13F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-11	SWES 14F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-12	SWES 15F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-13	SWES 16F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-14	SWES 17F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-15	SWES 18F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-16	SWES 19F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-17	SWES 20F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-18	SWES 21F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-19	SWES 22F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-20	SWES 23 FD	02/06/2020 5:12 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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620384-21	SWES 24 FD	02/06/2020 5:12 am	DF/C	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-22	SWES 25F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-23	SWES 26F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-24	SWES 27F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-25	SWES 28F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-26	SWES 29F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-27	SWES 30F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-28	SWES 31F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-29	SWES 32F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-30	SWES 33F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	0.71 ug/L	
620384-31	SWES 34F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-32	SWES 35F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-33	SWES 36F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-34	SWES 37F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-35	SWES 38F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-36	SWES 40F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-37	SWES 41F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-38	SWES 42F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-39	SWES 43F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-40	SWES 44F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
620384-41	SWES 45F FD	02/06/2020 5:12 am	CC/B	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-42	SWES 6BW FD	02/07/2020 5:35 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-43	SWES 24BW FD	02/07/2020 5:35 am	OT.1	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-44	SWES 1 FD	02/07/2020 5:35 am	KS	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-45	SWES 2 FD	02/07/2020 5:35 am	KS	ICP	Lead	0.5 ug/L	0.7 ug/L	
620384-46	SWES 3S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-47	SWES 4S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-48	SWES 7 FD	02/07/2020 5:35 am	TL	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-49	SWES 8S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	0.67 ug/L	
620384-50	SWES 9S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-51	SWES 10S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-52	SWES 11S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-53	SWES 12S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-54	SWES 13S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-55	SWES 14S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-56	SWES 15S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-57	SWES 16S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-58	SWES 17S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-59	SWES 18S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-60	SWES 19S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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		Date/Time	Location					
620384-61	SWES 20S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-62	SWES 21S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-63	SWES 22S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-64	SWES 25S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-65	SWES 26S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-66	SWES 27S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-67	SWES 28S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	0.67 ug/L	
620384-68	SWES 29S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	0.55 ug/L	
620384-69	SWES 30S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-70	SWES 31S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-71	SWES 32S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-72	SWES 33S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	0.63 ug/L	
620384-73	SWES 34S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-74	SWES 35S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-75	SWES 36S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-76	SWES 37S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-77	SWES 38S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-78	SWES 39 FD	02/07/2020 5:35 am	NO	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-79	SWES 40S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-80	SWES 41S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	



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AMA Sample Number	Client Sample Number	Sample Collection Information		Analysis Type	Sample Analyte	Reporting Limit	Final Result	Comments
		Date/Time	Location					
620384-81	SWES 42S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-82	SWES 43S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-83	SWES 44S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 ug/L	
620384-84	SWES 45S FD	02/07/2020 5:35 am	CC/S	ICP	Lead	0.5 ug/L	< 0.5 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)

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

Analyst(s): Suphin Chinnapad

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 Jean-Paul Littleton

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