

Apex Labs

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Saturday, July 9, 2016

Robyn Stolin
Hope Charter School
3500 SW 104th Ave
Beaverton, OR 97005

RE: Lead Drinking Water / [none]

Enclosed are the results of analyses for work order A6G0164, which was received by the laboratory on 6/23/2016 at 11:38:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



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Lisa Domenighini, Client Services Manager

Hope Charter School
3500 SW 104th Ave
Beaverton, OR 97005

Project: **Lead Drinking Water**
Project Number: [none]
Project Manager: Robyn Stolin

Reported:
07/09/16 09:39

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
001	A6G0164-01	Drinking Water	06/22/16 00:00	06/23/16 11:38
002	A6G0164-02	Drinking Water	06/22/16 00:00	06/23/16 11:38
003	A6G0164-03	Drinking Water	06/22/16 00:00	06/23/16 11:38
004	A6G0164-04	Drinking Water	06/22/16 00:00	06/23/16 11:38

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ANALYTICAL SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
001 (A6G0164-01)			Matrix: Drinking Water					
Batch: 6070192								
Lead	0.315	---	0.200	ug/L	1	07/07/16 22:32	EPA 200.8	
002 (A6G0164-02)			Matrix: Drinking Water					
Batch: 6070175								
Lead	0.252	---	0.200	ug/L	1	07/07/16 17:23	EPA 200.8	
003 (A6G0164-03)			Matrix: Drinking Water					
Batch: 6070192								
Lead	0.261	---	0.200	ug/L	1	07/07/16 22:36	EPA 200.8	
004 (A6G0164-04)			Matrix: Drinking Water					
Batch: 6070175								
Lead	46.3	---	0.200	ug/L	1	07/07/16 17:25	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070175 - Matrix Matched Direct Inject						Drinking Water						
Blank (6070175-BLK1)						Prepared: 07/07/16 15:15 Analyzed: 07/07/16 16:28						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (6070175-BS1)						Prepared: 07/07/16 15:15 Analyzed: 07/07/16 16:31						
EPA 200.8												
Lead	16.4	---	0.200	ug/L	1	16.7	---	98	85-115%	---	---	---
Matrix Spike (6070175-MS2)						Prepared: 07/07/16 15:15 Analyzed: 07/07/16 17:27						
QC Source Sample: 004 (A6G0164-04)												
EPA 200.8												
Lead	62.2	---	0.200	ug/L	1	16.7	46.3	96	70-130%	---	---	---
Batch 6070192 - EPA 3015A						Drinking Water						
Blank (6070192-BLK1)						Prepared: 07/07/16 18:20 Analyzed: 07/07/16 22:28						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (6070192-BS1)						Prepared: 07/07/16 18:20 Analyzed: 07/07/16 22:30						
EPA 200.8												
Lead	16.6	---	0.200	ug/L	1	16.7	---	100	85-115%	---	---	---
Duplicate (6070192-DUP1)						Prepared: 07/07/16 18:20 Analyzed: 07/07/16 22:34						
QC Source Sample: 001 (A6G0164-01)												
EPA 200.8												
Lead	0.309	---	0.200	ug/L	1	---	0.315	---	---	2	20%	---
Matrix Spike (6070192-MS1)						Prepared: 07/07/16 18:20 Analyzed: 07/07/16 22:38						
QC Source Sample: 003 (A6G0164-03)												
EPA 200.8												
Lead	16.6	---	0.200	ug/L	1	16.7	0.261	98	70-130%	---	---	---

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Reported:
 07/09/16 09:39

SAMPLE PREPARATION INFORMATION

Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070192							
A6G0164-01	Drinking Wa	EPA 200.8	06/22/16 00:00	07/07/16 18:20	45mL/50mL	45mL/50mL	1.00
A6G0164-03	Drinking Wa	EPA 200.8	06/22/16 00:00	07/07/16 18:20	45mL/50mL	45mL/50mL	1.00

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070175							
A6G0164-02	Drinking Wa	EPA 200.8	06/22/16 00:00	07/07/16 15:15	45mL/50mL	45mL/50mL	1.00
A6G0164-04	Drinking Wa	EPA 200.8	06/22/16 00:00	07/07/16 15:15	45mL/50mL	45mL/50mL	1.00

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Notes and Definitions

Qualifiers:

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Appendix F

316 for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance

Appendix F – Sample Recordkeeping Form

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Record of Sampling

Name of Building	Hope Charter School New Site
Name of Sample Collector	Pray Hoy
Contact Person for this Record	Same

Sample ID Number:

Circle sample type: Initial / 1st Follow-up / 2nd Follow-up

Length of Flush (for flushed samples)	
Type of Outlet (faucet, cooler etc.)	
Mfg/Model	
Serial #	
Date of Installation	
Location	Hope
Date of Collection	6/22/16
Time of Collection	7:30
Name of Laboratory Used	APE
Lead Concentration (ppb)	

NOTES: collected 4 samples:

001 staff Break Rm

002 Entry Drinking Fountain

003 Cafeteria " "

004 Cafeteria Faucet Kitchen

6/23/16
Kevin Tuvener 1138

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Lisa Domenighini