



N O R T H E R N
Analytical Services, LLC.
ENVIRONMENTAL CONSULTANTS

November 14, 2017

Project No: 170230

Marlon Harris
Dove Academy of Detroit
20001 Wexford Street
Detroit, Michigan 48234

Re: Water Testing
Dove Academy of Detroit

Dear Mr. Harris:

Please find the enclosed laboratory results from water samples Northern Analytical Services, LLC. (NAS) collected at the site. Samples were collected to determine the levels of the lead and copper present in drinking water at each active drinking fountain and sink found in the building. Testing was performed as part of an annual inspection of your building.

Samples were collected on September 14th, 2017 by Juston Rehkopf, a State of Michigan accredited Lead Based Paint Inspector (P05558) of NAS. Samples were collected by filling a single 250 milliliter container, pre-treated by the laboratory with acid, at each faucet/drinking fountain and delivering them to the laboratory for analysis. Sample collection was conducted in the morning prior to the water being used by occupants as a "first draw" sample. NAS did not flush or otherwise run each faucet or fountain prior to sample collection; to our knowledge each faucet and fountain sat dormant for at least 6 hours prior to sample collection.

Once delivered to the laboratory (Pace Analytical), samples were analyzed for the presence of copper and lead in accordance with US EPA method 200.8. A copy of the laboratory report is attached.

According to the US EPA's Lead and Copper rule, which applies to schools and child care facilities that meet the definition of a public water system, the practical quantitation limit (PQL) for lead is 0.005 micrograms of lead per liter of water (mg/L) and 0.050 mg/L for copper. The PQL is the concentration of lead or copper that can be reliably measured within specified limits during routine laboratory operating conditions using approved methods. The action level is the concentration of lead or copper in potable water which determines whether a system may be required to install corrosion control treatment, collect water quality parameter samples, collect source water samples, replace lead service lines, and /or deliver public education about lead. The action level for lead is 0.015 mg/L and 1.3 mg/L for copper.

Essentially the PQL is the limit of detection and the Action Level is the level at which steps should be taken in order to minimize or eliminate exposure to lead or copper. Actions to be taken when the action level is exceeded include the following:

- Public education-provide information to building occupants about the water quality.
- Water quality parameter (WQP) monitoring-establish a routine monitoring program.
- Source water monitoring and source water treatment if necessary.
- Corrosion control treatment (CCT).

Choice Schools Associates
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The following is a summary of our findings:

Sample ID	Location	Copper Concentration (mg/L)	Lead Concentration (mg/L)
DE-1	See Attached Drawing	0.029	ND
DE-2	See Attached Drawing	0.071*	ND
DE-3	See Attached Drawing	0.010	0.0046
DE-4	See Attached Drawing	0.064*	0.0041
DE-5	See Attached Drawing	0.047	ND
DE-6	See Attached Drawing	0.029	0.0011
DE-7	See Attached Drawing	0.036	0.0017
DE-8	See Attached Drawing	0.014	0.0032
DE-9	See Attached Drawing	0.033	ND
DE-10	See Attached Drawing	0.24*	0.0059*
DE-11	See Attached Drawing	0.026	0.0019
DE-12	See Attached Drawing	0.045	0.0020
DE-13	See Attached Drawing	0.027	0.0019
DE-14	See Attached Drawing	0.044	0.0016
DE-15	See Attached Drawing	0.015	0.0054*
DE-16	See Attached Drawing	0.018	0.0053*
DE-17	See Attached Drawing	0.098*	0.014*
DE-18	See Attached Drawing	0.047	0.0082*
DE-19	See Attached Drawing	0.046	0.0033
DE-20	See Attached Drawing	0.041	0.0035
DE-21	See Attached Drawing	0.031	0.0039
DE-22	See Attached Drawing	0.022	0.0049
DE-23	See Attached Drawing	0.024	0.0017
DE-24	See Attached Drawing	0.098*	0.0023
DE-25	See Attached Drawing	0.053*	0.0034
DE-26	See Attached Drawing	0.060*	0.0017
DE-27	See Attached Drawing	0.11*	0.0022
DE-28	See Attached Drawing	0.15*	0.0026
DE-29	See Attached Drawing	0.11*	0.0018
DE-30	See Attached Drawing	0.15*	0.0027
DE-31	See Attached Drawing	0.12*	ND
DE-32	See Attached Drawing	0.19*	0.0035
DE-33	See Attached Drawing	0.091*	0.0011
DE-34	See Attached Drawing	0.25*	0.0019
DE-35	See Attached Drawing	0.18*	ND
DE-36	See Attached Drawing	0.18*	0.0027
DE-37	See Attached Drawing	0.10*	0.0024

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DE-38	See Attached Drawing	0.036	ND
DE-39	See Attached Drawing	0.053*	ND
DE-40	See Attached Drawing	0.20*	ND
DE-41	See Attached Drawing	0.11*	0.0020
DE-42	See Attached Drawing	0.097*	ND
DE-43	See Attached Drawing	0.21*	0.010*
DE-44	See Attached Drawing	0.17*	0.0027
DEC-1	See Attached Drawing	0.19	ND
DEC-2	See Attached Drawing	0.64*	0.0083*

* exceeds the PQL for lead or copper.

**exceeds the action level for lead or copper.

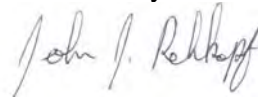
Of the 46 samples collected, seven of those samples exceeded the PQL level for lead, 25 exceeded the PQL level for copper; none of the samples exceeded the action level for lead or copper.

Based on these results, NAS recommends the following actions:

- Re-test all fixtures at least annually and following any major changes to the system.

NAS appreciates the opportunity to provide these services and looks forward to assisting you with any re-testing needed. Please do not hesitate to contact me with any questions.

Sincerely



John J. Rehkopf
President

September 29, 2017

John Rehkopf
Northern Analytical Services
14870 225th Avenue
Big Rapids, MI 49307

RE: Project: Dove Academy
Pace Project No.: 462624

Dear John Rehkopf:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Gary Wood
gary.wood@pacelabs.com
(616)940-4206
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Dove Academy
Pace Project No.: 462624

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512
ISO/IEC 17025:2005, Certificate #AT-1542.01
DoD-ELAP, Certificate #ADE-1542
Minnesota Department of Health, Certificate #1177224
Arkansas Department of Environmental Quality, Certificate #17-046-0
Georgia Environmental Protection Division, Stipulation
Illinois Environmental Protection Agency, Certificate #004097
Michigan Department of Environmental Quality, Laboratory #0034

New York State Department of Health, Serial #56192 and 56193
North Carolina Division of Water Resources, Certificate #659
Virginia Department of General Services, Certificate #9028
Wisconsin Department of Natural Resources, Laboratory #999472650
U.S. Department of Agriculture Permit to Receive Soil, Permit #P330-14-00305

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Dove Academy
Pace Project No.: 462624

Lab ID	Sample ID	Matrix	Date Collected	Date Received
462624001	DE1	Drinking Water	09/14/17 07:46	09/15/17 09:51
462624002	DE2	Drinking Water	09/14/17 07:47	09/15/17 09:51
462624003	DE3	Drinking Water	09/14/17 07:49	09/15/17 09:51
462624004	DE4	Drinking Water	09/14/17 07:49	09/15/17 09:51
462624005	DE5	Drinking Water	09/14/17 07:51	09/15/17 09:51
462624006	DE6	Drinking Water	09/14/17 07:51	09/15/17 09:51
462624007	DE7	Drinking Water	09/14/17 07:51	09/15/17 09:51
462624008	DE8	Drinking Water	09/14/17 07:51	09/15/17 09:51
462624009	DE9	Drinking Water	09/14/17 07:52	09/15/17 09:51
462624010	DE10	Drinking Water	09/14/17 07:56	09/15/17 09:51
462624011	DE11	Drinking Water	09/14/17 07:58	09/15/17 09:51
462624012	DE12	Drinking Water	09/14/17 07:58	09/15/17 09:51
462624013	DE13	Drinking Water	09/14/17 07:58	09/15/17 09:51
462624014	DE14	Drinking Water	09/14/17 07:58	09/15/17 09:51
462624015	DE15	Drinking Water	09/14/17 08:02	09/15/17 09:51
462624016	DE16	Drinking Water	09/14/17 08:02	09/15/17 09:51
462624017	DE17	Drinking Water	09/14/17 08:06	09/15/17 09:51
462624018	DE18	Drinking Water	09/14/17 08:06	09/15/17 09:51
462624019	DE19	Drinking Water	09/14/17 08:06	09/15/17 09:51
462624020	DE20	Drinking Water	09/14/17 08:06	09/15/17 09:51
462624021	DE21	Drinking Water	09/14/17 08:06	09/15/17 09:51
462624022	DE22	Drinking Water	09/14/17 08:08	09/15/17 09:51
462624023	DE23	Drinking Water	09/14/17 08:08	09/15/17 09:51
462624024	DE24	Drinking Water	09/14/17 08:08	09/15/17 09:51
462624025	DE25	Drinking Water	09/14/17 08:08	09/15/17 09:51
462624026	DE26	Drinking Water	09/14/17 08:11	09/15/17 09:51
462624027	DE27	Drinking Water	09/14/17 08:13	09/15/17 09:51
462624028	DE28	Drinking Water	09/14/17 08:13	09/15/17 09:51
462624029	DE29	Drinking Water	09/14/17 08:15	09/15/17 09:51
462624030	DE30	Drinking Water	09/14/17 08:15	09/15/17 09:51
462624031	DE31	Drinking Water	09/14/17 08:16	09/15/17 09:51
462624032	DE32	Drinking Water	09/14/17 08:18	09/15/17 09:51
462624033	DE33	Drinking Water	09/14/17 08:18	09/15/17 09:51
462624034	DE34	Drinking Water	09/14/17 08:19	09/15/17 09:51
462624035	DE35	Drinking Water	09/14/17 08:20	09/15/17 09:51
462624036	DE36	Drinking Water	09/14/17 08:30	09/15/17 09:51
462624037	DE37	Drinking Water	09/14/17 08:30	09/15/17 09:51

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SAMPLE SUMMARY

Project: Dove Academy
Pace Project No.: 462624

Lab ID	Sample ID	Matrix	Date Collected	Date Received
462624038	DE38	Drinking Water	09/14/17 08:30	09/15/17 09:51
462624039	DE39	Drinking Water	09/14/17 08:30	09/15/17 09:51
462624040	DE40	Drinking Water	09/14/17 08:31	09/15/17 09:51
462624041	DE41	Drinking Water	09/14/17 08:32	09/15/17 09:51
462624042	DE42	Drinking Water	09/14/17 08:33	09/15/17 09:51
462624043	DE43	Drinking Water	09/14/17 08:33	09/15/17 09:51
462624044	DE44	Drinking Water	09/14/17 08:33	09/15/17 09:51
462624045	DEC1	Drinking Water	09/14/17 08:35	09/15/17 09:51
462624046	DEC2	Drinking Water	09/14/17 08:37	09/15/17 09:51

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SAMPLE ANALYTE COUNT

Project: Dove Academy

Pace Project No.: 462624

Lab ID	Sample ID	Method	Analysts	Analytes Reported
462624001	DE1	EPA 200.8	CKD	2
462624002	DE2	EPA 200.8	CKD	2
462624003	DE3	EPA 200.8	CKD	2
462624004	DE4	EPA 200.8	CKD	2
462624005	DE5	EPA 200.8	CKD	2
462624006	DE6	EPA 200.8	CKD	2
462624007	DE7	EPA 200.8	CKD	2
462624008	DE8	EPA 200.8	CKD	2
462624009	DE9	EPA 200.8	CKD	2
462624010	DE10	EPA 200.8	CKD	2
462624011	DE11	EPA 200.8	CKD	2
462624012	DE12	EPA 200.8	CKD	2
462624013	DE13	EPA 200.8	CKD	2
462624014	DE14	EPA 200.8	CKD	2
462624015	DE15	EPA 200.8	CKD	2
462624016	DE16	EPA 200.8	CKD	2
462624017	DE17	EPA 200.8	CKD	2
462624018	DE18	EPA 200.8	CKD	2
462624019	DE19	EPA 200.8	CKD	2
462624020	DE20	EPA 200.8	CKD	2
462624021	DE21	EPA 200.8	CKD	2
462624022	DE22	EPA 200.8	CKD	2
462624023	DE23	EPA 200.8	CKD	2
462624024	DE24	EPA 200.8	CKD	2
462624025	DE25	EPA 200.8	CKD	2
462624026	DE26	EPA 200.8	CKD	2
462624027	DE27	EPA 200.8	CKD	2
462624028	DE28	EPA 200.8	CKD	2
462624029	DE29	EPA 200.8	CKD	2
462624030	DE30	EPA 200.8	CKD	2
462624031	DE31	EPA 200.8	CKD	2
462624032	DE32	EPA 200.8	CKD	2
462624033	DE33	EPA 200.8	CKD	2
462624034	DE34	EPA 200.8	CKD	2
462624035	DE35	EPA 200.8	CKD	2
462624036	DE36	EPA 200.8	CKD	2
462624037	DE37	EPA 200.8	CKD	2

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SAMPLE ANALYTE COUNT

Project: Dove Academy

Pace Project No.: 462624

Lab ID	Sample ID	Method	Analysts	Analytes Reported
462624038	DE38	EPA 200.8	CKD	2
462624039	DE39	EPA 200.8	CKD	2
462624040	DE40	EPA 200.8	CKD	2
462624041	DE41	EPA 200.8	CKD	2
462624042	DE42	EPA 200.8	CKD	2
462624043	DE43	EPA 200.8	CKD	2
462624044	DE44	EPA 200.8	CKD	2
462624045	DEC1	EPA 200.8	CKD	2
462624046	DEC2	EPA 200.8	CKD	2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE1		Lab ID: 462624001	Collected: 09/14/17 07:46	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.029	mg/L	0.0010	1		09/28/17 15:07	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 15:07	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE2		Lab ID: 462624002	Collected: 09/14/17 07:47	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.071	mg/L	0.0010	1		09/28/17 15:08	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 15:08	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DE3		Lab ID: 462624003		Collected: 09/14/17 07:49	Received: 09/15/17 09:51	Matrix: Drinking Water		
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.010	mg/L	0.0010	1		09/28/17 15:09	7440-50-8	
Lead	0.0046	mg/L	0.0010	1		09/28/17 15:09	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE4		Lab ID: 462624004	Collected: 09/14/17 07:49	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.064	mg/L	0.0010	1		09/28/17 15:10	7440-50-8	
Lead	0.0041	mg/L	0.0010	1		09/28/17 15:10	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE5		Lab ID: 462624005		Collected: 09/14/17 07:51	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.047	mg/L	0.0010	1		09/28/17 15:14	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 15:14	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE6		Lab ID: 462624006	Collected: 09/14/17 07:51	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.029	mg/L	0.0010	1		09/28/17 15:15	7440-50-8	
Lead	0.0011	mg/L	0.0010	1		09/28/17 15:15	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE7		Lab ID: 462624007	Collected: 09/14/17 07:51	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.036	mg/L	0.0010	1		09/28/17 15:16	7440-50-8	
Lead	0.0017	mg/L	0.0010	1		09/28/17 15:16	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE8		Lab ID: 462624008	Collected: 09/14/17 07:51	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.014	mg/L	0.0010	1		09/28/17 15:18	7440-50-8	
Lead	0.0032	mg/L	0.0010	1		09/28/17 15:18	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE9		Lab ID: 462624009	Collected: 09/14/17 07:52	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.033	mg/L	0.0010	1		09/28/17 15:19	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 15:19	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE10		Lab ID: 462624010	Collected: 09/14/17 07:56	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.24	mg/L	0.0050	5		09/28/17 18:09	7440-50-8	
Lead	0.0059	mg/L	0.0010	1		09/28/17 15:20	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE11	Lab ID: 462624011	Collected: 09/14/17 07:58	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.026	mg/L	0.0010	1		09/28/17 15:24	7440-50-8	
Lead	0.0019	mg/L	0.0010	1		09/28/17 15:24	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE12		Lab ID: 462624012	Collected: 09/14/17 07:58	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.045	mg/L	0.0010	1		09/28/17 15:31	7440-50-8		
Lead	0.0020	mg/L	0.0010	1		09/28/17 15:31	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE13		Lab ID: 462624013	Collected: 09/14/17 07:58	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.027	mg/L	0.0010	1		09/28/17 15:36	7440-50-8	
Lead	0.0019	mg/L	0.0010	1		09/28/17 15:36	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE14	Lab ID: 462624014	Collected: 09/14/17 07:58	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.044	mg/L	0.0010	1		09/28/17 15:37	7440-50-8	
Lead	0.0016	mg/L	0.0010	1		09/28/17 15:37	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE15		Lab ID: 462624015	Collected: 09/14/17 08:02	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.015	mg/L	0.0010	1		09/28/17 15:38	7440-50-8	
Lead	0.0054	mg/L	0.0010	1		09/28/17 15:38	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE16		Lab ID: 462624016	Collected: 09/14/17 08:02	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.018	mg/L	0.0010	1		09/28/17 15:39	7440-50-8	
Lead	0.0053	mg/L	0.0010	1		09/28/17 15:39	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE17		Lab ID: 462624017	Collected: 09/14/17 08:06	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.098	mg/L	0.0010	1		09/28/17 15:43	7440-50-8		
Lead	0.014	mg/L	0.0010	1		09/28/17 15:43	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE18		Lab ID: 462624018	Collected: 09/14/17 08:06	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.047	mg/L	0.0010	1		09/28/17 15:44	7440-50-8	
Lead	0.0082	mg/L	0.0010	1		09/28/17 15:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE19		Lab ID: 462624019	Collected: 09/14/17 08:06	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.046	mg/L	0.0010	1		09/28/17 15:46	7440-50-8	
Lead	0.0033	mg/L	0.0010	1		09/28/17 15:46	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE20		Lab ID: 462624020	Collected: 09/14/17 08:06	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.041	mg/L	0.0010	1		09/28/17 15:47	7440-50-8	
Lead	0.0035	mg/L	0.0010	1		09/28/17 15:47	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE21	Lab ID: 462624021	Collected: 09/14/17 08:06		Received: 09/15/17 09:51		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.031	mg/L	0.0010	1		09/28/17 15:48	7440-50-8	
Lead	0.0039	mg/L	0.0010	1		09/28/17 15:48	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE22	Lab ID: 462624022	Collected: 09/14/17 08:08		Received: 09/15/17 09:51		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.022	mg/L	0.0010	1		09/28/17 15:49	7440-50-8	
Lead	0.0049	mg/L	0.0010	1		09/28/17 15:49	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE23		Lab ID: 462624023	Collected: 09/14/17 08:08	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.024	mg/L	0.0010	1		09/28/17 15:50	7440-50-8		
Lead	0.0017	mg/L	0.0010	1		09/28/17 15:50	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE24	Lab ID: 462624024	Collected: 09/14/17 08:08	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.098	mg/L	0.0010	1		09/28/17 15:52	7440-50-8	
Lead	0.0023	mg/L	0.0010	1		09/28/17 15:52	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE25		Lab ID: 462624025	Collected: 09/14/17 08:08	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.053	mg/L	0.0010	1		09/28/17 15:53	7440-50-8		
Lead	0.0034	mg/L	0.0010	1		09/28/17 15:53	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE26		Lab ID: 462624026	Collected: 09/14/17 08:11	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.060	mg/L	0.0010	1		09/28/17 15:54	7440-50-8	
Lead	0.0017	mg/L	0.0010	1		09/28/17 15:54	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DE27		Lab ID: 462624027		Collected: 09/14/17 08:13	Received: 09/15/17 09:51	Matrix: Drinking Water		
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.11	mg/L	0.0050	5		09/28/17 18:10	7440-50-8	
Lead	0.0022	mg/L	0.0010	1		09/28/17 15:58	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE28		Lab ID: 462624028		Collected: 09/14/17 08:13	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.15	mg/L	0.0050	5		09/28/17 18:11	7440-50-8	
Lead	0.0026	mg/L	0.0010	1		09/28/17 15:59	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Sample: DE29		Lab ID: 462624029		Collected: 09/14/17 08:15	Received: 09/15/17 09:51	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.11	mg/L	0.0050	5		09/28/17 18:12	7440-50-8		
Lead	0.0018	mg/L	0.0010	1		09/28/17 16:00	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE30		Lab ID: 462624030		Collected: 09/14/17 08:15	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.15	mg/L	0.0050	5		09/28/17 18:13	7440-50-8	
Lead	0.0027	mg/L	0.0010	1		09/28/17 16:01	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
Sample: DE31		Lab ID: 462624031		Collected: 09/14/17 08:16	Received: 09/15/17 09:51	Matrix: Drinking Water			
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.12	mg/L	0.0050	5		09/28/17 18:17	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 16:05	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE32		Lab ID: 462624032	Collected: 09/14/17 08:18	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.19	mg/L	0.0050	5		09/28/17 18:22	7440-50-8	
Lead	0.0035	mg/L	0.0010	1		09/28/17 16:12	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE33		Lab ID: 462624033	Collected: 09/14/17 08:18	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.091	mg/L	0.0010	1		09/28/17 16:17	7440-50-8	
Lead	0.0011	mg/L	0.0010	1		09/28/17 16:17	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE34		Lab ID: 462624034	Collected: 09/14/17 08:19	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.25	mg/L	0.0050	5		09/28/17 18:27	7440-50-8	
Lead	0.0019	mg/L	0.0010	1		09/28/17 16:18	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE35		Lab ID: 462624035		Collected: 09/14/17 08:20		Received: 09/15/17 09:51		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.18	mg/L	0.0050	5		09/28/17 18:28	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 16:19	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE36		Lab ID: 462624036	Collected: 09/14/17 08:30	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.18	mg/L	0.0050	5		09/28/17 18:32	7440-50-8	
Lead	0.0027	mg/L	0.0010	1		09/28/17 16:21	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE37		Lab ID: 462624037	Collected: 09/14/17 08:30	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.10	mg/L	0.0050	5		09/28/17 18:33	7440-50-8		
Lead	0.0024	mg/L	0.0010	1		09/28/17 16:22	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE38		Lab ID: 462624038		Collected: 09/14/17 08:30	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.036	mg/L	0.0010	1		09/28/17 16:23	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 16:23	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE39		Lab ID: 462624039		Collected: 09/14/17 08:30	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.053	mg/L	0.0010	1		09/28/17 16:27	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 16:27	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DE40		Lab ID: 462624040		Collected: 09/14/17 08:31	Received: 09/15/17 09:51	Matrix: Drinking Water		
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.20	mg/L	0.0050	5		09/28/17 18:34	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 16:28	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE41		Lab ID: 462624041	Collected: 09/14/17 08:32	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Copper	0.11	mg/L	0.0050	5		09/28/17 18:35	7440-50-8	
Lead	0.0020	mg/L	0.0010	1		09/28/17 16:29	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Sample: DE42		Lab ID: 462624042	Collected: 09/14/17 08:33	Received: 09/15/17 09:51	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.097	mg/L	0.0010	1		09/28/17 16:30	7440-50-8		
Lead	ND	mg/L	0.0010	1		09/28/17 16:30	7439-92-1		

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE43		Lab ID: 462624043		Collected: 09/14/17 08:33	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.21	mg/L	0.0050	5		09/28/17 18:37	7440-50-8	
Lead	0.010	mg/L	0.0010	1		09/28/17 16:32	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DE44		Lab ID: 462624044	Collected: 09/14/17 08:33	Received: 09/15/17 09:51	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.17	mg/L	0.0050	5		09/28/17 18:38	7440-50-8	
Lead	0.0027	mg/L	0.0010	1		09/28/17 16:33	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy

Pace Project No.: 462624

Sample: DEC1		Lab ID: 462624045		Collected: 09/14/17 08:35	Received: 09/15/17 09:51	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.19	mg/L	0.0050	5		09/28/17 18:39	7440-50-8	
Lead	ND	mg/L	0.0010	1		09/28/17 16:34	7439-92-1	

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ANALYTICAL RESULTS

Project: Dove Academy
Pace Project No.: 462624

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: DEC2		Lab ID: 462624046		Collected: 09/14/17 08:37	Received: 09/15/17 09:51	Matrix: Drinking Water		
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8						
Copper	0.64	mg/L	0.010	10		09/28/17 18:40	7440-50-8	
Lead	0.0083	mg/L	0.0010	1		09/28/17 16:35	7439-92-1	

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QUALITY CONTROL DATA

Project: Dove Academy
Pace Project No.: 462624

QC Batch: 5701 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 462624001, 462624002, 462624003, 462624004, 462624005, 462624006, 462624007, 462624008, 462624009, 462624010

METHOD BLANK: 23257 Matrix: Water
Associated Lab Samples: 462624001, 462624002, 462624003, 462624004, 462624005, 462624006, 462624007, 462624008, 462624009, 462624010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	09/28/17 14:40	
Lead	mg/L	ND	0.0010	09/28/17 14:40	

LABORATORY CONTROL SAMPLE: 23258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.021	105	85-115	
Lead	mg/L	.02	0.020	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23259 23260

Parameter	Units	462621021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.089	.1	.1	0.19	0.19	105	103	70-130	1	20	
Lead	mg/L	0.0031	.02	.02	0.027	0.027	121	121	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23262 23263

Parameter	Units	462621022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.19	.1	.1	0.29	0.28	96	94	70-130	1	20	
Lead	mg/L	0.0038	.02	.02	0.027	0.028	115	121	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Dove Academy
Pace Project No.: 462624

QC Batch: 5702 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 462624011, 462624012, 462624013, 462624014, 462624015, 462624016, 462624017, 462624018, 462624019, 462624020, 462624021, 462624022, 462624023, 462624024, 462624025, 462624026, 462624027, 462624028, 462624029, 462624030

METHOD BLANK: 23265 Matrix: Water
Associated Lab Samples: 462624011, 462624012, 462624013, 462624014, 462624015, 462624016, 462624017, 462624018, 462624019, 462624020, 462624021, 462624022, 462624023, 462624024, 462624025, 462624026, 462624027, 462624028, 462624029, 462624030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	09/28/17 15:21	
Lead	mg/L	ND	0.0010	09/28/17 15:21	

LABORATORY CONTROL SAMPLE: 23266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.021	107	85-115	
Lead	mg/L	.02	0.021	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23267 23268

Parameter	Units	462624011		462624012		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Copper	mg/L	.02	.02	0.048	0.047	109	104	70-130	2	20	
Lead	mg/L	.02	.02	0.027	0.027	124	124	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23270 23271

Parameter	Units	462624012		462624013		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Copper	mg/L	.02	.02	0.065	0.065	99	100	70-130	0	20	
Lead	mg/L	.02	.02	0.025	0.026	116	122	70-130	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Dove Academy
Pace Project No.: 462624

QC Batch: 5703 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 462624031, 462624032, 462624033, 462624034, 462624035, 462624036, 462624037, 462624038, 462624039, 462624040, 462624041, 462624042, 462624043, 462624044, 462624045, 462624046

METHOD BLANK: 23273 Matrix: Water
Associated Lab Samples: 462624031, 462624032, 462624033, 462624034, 462624035, 462624036, 462624037, 462624038, 462624039, 462624040, 462624041, 462624042, 462624043, 462624044, 462624045, 462624046

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	09/28/17 16:03	
Lead	mg/L	ND	0.0010	09/28/17 16:03	

LABORATORY CONTROL SAMPLE: 23274

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	.02	0.022	109	85-115	
Lead	mg/L	.02	0.020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23275 23276

Parameter	Units	462624031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.12	.1	.1	0.22	0.22	105	108	70-130	1	20	
Lead	mg/L	ND	.02	.02	0.025	0.025	120	121	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 23278 23279

Parameter	Units	462624032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	mg/L	0.19	.1	.1	0.29	0.29	100	97	70-130	1	20	
Lead	mg/L	0.0035	.02	.02	0.028	0.026	120	115	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Dove Academy
Pace Project No.: 462624

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Dove Academy

Pace Project No.: 462624

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
462624001	DE1	EPA 200.8	5701		
462624002	DE2	EPA 200.8	5701		
462624003	DE3	EPA 200.8	5701		
462624004	DE4	EPA 200.8	5701		
462624005	DE5	EPA 200.8	5701		
462624006	DE6	EPA 200.8	5701		
462624007	DE7	EPA 200.8	5701		
462624008	DE8	EPA 200.8	5701		
462624009	DE9	EPA 200.8	5701		
462624010	DE10	EPA 200.8	5701		
462624011	DE11	EPA 200.8	5702		
462624012	DE12	EPA 200.8	5702		
462624013	DE13	EPA 200.8	5702		
462624014	DE14	EPA 200.8	5702		
462624015	DE15	EPA 200.8	5702		
462624016	DE16	EPA 200.8	5702		
462624017	DE17	EPA 200.8	5702		
462624018	DE18	EPA 200.8	5702		
462624019	DE19	EPA 200.8	5702		
462624020	DE20	EPA 200.8	5702		
462624021	DE21	EPA 200.8	5702		
462624022	DE22	EPA 200.8	5702		
462624023	DE23	EPA 200.8	5702		
462624024	DE24	EPA 200.8	5702		
462624025	DE25	EPA 200.8	5702		
462624026	DE26	EPA 200.8	5702		
462624027	DE27	EPA 200.8	5702		
462624028	DE28	EPA 200.8	5702		
462624029	DE29	EPA 200.8	5702		
462624030	DE30	EPA 200.8	5702		
462624031	DE31	EPA 200.8	5703		
462624032	DE32	EPA 200.8	5703		
462624033	DE33	EPA 200.8	5703		
462624034	DE34	EPA 200.8	5703		
462624035	DE35	EPA 200.8	5703		
462624036	DE36	EPA 200.8	5703		
462624037	DE37	EPA 200.8	5703		
462624038	DE38	EPA 200.8	5703		
462624039	DE39	EPA 200.8	5703		
462624040	DE40	EPA 200.8	5703		
462624041	DE41	EPA 200.8	5703		
462624042	DE42	EPA 200.8	5703		
462624043	DE43	EPA 200.8	5703		
462624044	DE44	EPA 200.8	5703		
462624045	DEC1	EPA 200.8	5703		
462624046	DEC2	EPA 200.8	5703		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	<u>See page 1</u>	Report To:		Attention:	
Address:		Copy To:		Company Name:	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name:	<u>Dove Academy</u>	Pace Quote Reference:	
Fax:		Project Number:		Pace Project Manager:	
Requested Due Date/TAT:				Pace Profile #:	
REGULATORY AGENCY			REGULATORY AGENCY		
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER			23-B 2166470		
Site Location STATE: <u>WI</u>			Requested Analysis Filtered (Y/N)		

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
						COMPOSITE START	COMPOSITE END/STAB							
1	DE13					9-14-17	7:58		1					-013
2	DE14						7:58							-014
3	DE15						8:02							-015
4	DE16						8:02							-016
5	DE17						8:06							-017
6	DE18						8:06							-018
7	DE19						8:06							-019
8	DE20						8:06							-020
9	DE21						8:06							-021
10	DE22						8:08							-022
11	DE23						8:08							-023
12	DE24						8:08							-024

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		<u>Prison Ministry</u>		<u>9-15-17</u>		<u>8:08</u>		<u>Justin Rehkopf</u>		<u>9/15/17 0951</u>					
<p>TEMPERATURE: _____</p> <p>Temp in °C _____</p> <p>Received on Ice (Y/N) _____</p> <p>Custody Sealed Cooler (Y/N) _____</p> <p>Samples Intact (Y/N) _____</p>															

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Justin Rehkopf

SIGNATURE OF SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 9-15-17

TEMPERATURE: _____

Temp in °C _____

Received on Ice (Y/N) _____

Custody Sealed Cooler (Y/N) _____

Samples Intact (Y/N) _____

F-ALL-Q-020(rev. 07-15-May-2007)

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	See page 1	Report To:		Attention:	
Address:		Copy To:		Company Name:	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name:	Dove Academy	Pace Quote:	
Fax:		Project Number:		Pace Project Manager:	
Requested Due Date/TAT:				Pace Profile #:	
REGULATORY AGENCY			23-8		
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER			Pace Project No./ Lab I.D. 2166471		
Site Location			MI		
STATE:					

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	DE 25		DW	G	9-14-17		8:08	1											-025
2	DE 26		DW	G			8:11												-026
3	DE 27		DW	G			8:13												-027
4	DE 28		DW	G			8:13												-028
5	DE 29		DW	G			8:15												-029
6	DE 30		DW	G			8:15												-030
7	DE 31		DW	G			8:16												-031
8	DE 32		DW	G			8:18												-032
9	DE 33		DW	G			8:18												-033
10	DE 34		DW	G			8:19												-034
11	DE 35		DW	G			8:20												-035
12	DE 36		DW	G			8:30												-036

RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
Judy Kellum		9-15-17		8:30		Stephanie Tice		9/15/17		0951	
ADDITIONAL COMMENTS ORIGINAL											
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Syston Kellum</u> SIGNATURE of SAMPLER: <u>Judy Kellum</u> DATE Signed (MM/DD/YY): <u>9-15-17</u>											
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)								

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
F-ALL-Q-020Rev.07, 15-May-2007

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

#4626231

Section A Required Client Information: Company: See page 1 Report To: _____
 Section B Required Project Information: Report To: _____
 Section C Invoice Information: Attention: _____

Address: _____ Copy To: _____
 Email To: _____ Purchase Order No.: _____
 Phone: _____ Fax: _____ Project Name: Dave Academy
 Requested Due Date/TAT: _____ Project Number: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

238
2166472

Page: 4 of 4
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REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 Site Location STATE: MI

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	DE 37		DW	G	9-14-17	8:30		1					037
2	DE 38		WT	G		8:30							038
3	DE 39		WW	G		8:30							039
4	DE 40		P	G		8:31							040
5	DE 41		SL	G		8:32							041
6	DE 42		OL	G		8:33							042
7	DE 43		WP	G		8:33							043
8	DE 44		AR	G		8:33							044
9	DE 45		TS	G		8:35							045
10	DE 46		OT	G		8:37							046
11													
12													


ADDITIONAL COMMENTS: _____
 RELINQUISHED BY / AFFILIATION: Pat Wynn DATE: 9-15-17 TIME: _____
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/15/17 TIME: 0851
 ORIGINAL

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: Ruston Rehkopf
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 9-15-17

Temp in °C _____
 Received on Ice (Y/N) _____
 Custody Sealed Cooler (Y/N) _____
 Samples Intact (Y/N) _____

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month. Any invoices not paid within 30 days. F-ALL-Q-020rev.07, 15-May-2007

SAMPLE RECEIVING / LOG-IN CHECKLIST


Client: Northern Analytical
Work Order #: 462624
Receipt Record Page/Line #: 23-8
New / Add To Project Chemist Sample #s _____

Recorded by (initials/date): LR 9/15/17

 Cooler Box Other _____

 Qty Received: 1

 IR Gun (#202) Digital Thermometer (#54) See Additional Cooler Information Form

 Thermometer Used Other (# _____)

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
<u>Pace</u>	<u>1430</u>	<u>Pace</u>	<u>1440</u>					
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		
If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		If Present, Temperature Blank Location is:		
<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		<input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1:	<u>22.3</u>	<u>-</u>	<u>22.3</u>			Sample 1:		
Sample 2:	<u>22.2</u>	<u>-</u>	<u>22.2</u>			Sample 2:		
Sample 3:	<u>22.2</u>	<u>-</u>	<u>22.2</u>			Sample 3:		
3 Sample Average °C: <u>22.2</u>			3 Sample Average °C: <u>23.3</u>			3 Sample Average °C: _____		
<input type="checkbox"/> Cooler ID on COC?		<input type="checkbox"/> VOC Trip Blank received?		<input type="checkbox"/> Cooler ID on COC?		<input type="checkbox"/> VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <input checked="" type="checkbox"/> Chain of Custody record(s)? If No, Initiated By _____ <input checked="" type="checkbox"/> Received for Lab Signed/Date/Time? <input type="checkbox"/> Shipping document? <input type="checkbox"/> Other _____	Check Sample Preservation N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C? <input checked="" type="checkbox"/> If either is ≥6° C, was thermal preservation required? If "Yes", Project Chemist Approval Initials: _____ If "Yes" Completed Non Con' Cooler - Cont Inventory Form? <input type="checkbox"/> Completed Sample Preservation Verification Form? <input checked="" type="checkbox"/> Samples chemically preserved correctly? If "No", added orange tag? <input type="checkbox"/> Received pre-preserved VOC soils? <input type="checkbox"/> MeOH <input type="checkbox"/> Na ₂ SO ₄
--	---

Check COC for Accuracy Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <input checked="" type="checkbox"/> Analysis Requested? <input checked="" type="checkbox"/> Sample ID matches COC? <input checked="" type="checkbox"/> Sample Date and Time matches COC? <input checked="" type="checkbox"/> Container type completed on COC? <input checked="" type="checkbox"/> All container types indicated are received?	Check for Short Hold-Time Prep/Analyses <input type="checkbox"/> Bacteriological <input type="checkbox"/> Air Bags <input type="checkbox"/> EnCores / Methanol Pre-Preserved <input type="checkbox"/> Formaldehyde/Aldehyde <input type="checkbox"/> Green-tagged containers <input type="checkbox"/> Yellow/White-tagged 1 L ambers (SV Prep-Lab)
---	---

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)

NONE RECEIVED
 RECEIVED, COCs TO LAB(S)

Sample Condition Summary N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <input checked="" type="checkbox"/> Broken containers/lids? <input checked="" type="checkbox"/> Missing or incomplete labels? <input checked="" type="checkbox"/> Illegible information on labels? <input checked="" type="checkbox"/> Low volume received? <input checked="" type="checkbox"/> Inappropriate or non-Pace containers received? <input type="checkbox"/> VOC vials / TOX containers have headspace? <input type="checkbox"/> Extra sample locations / containers not listed on COC?	Notes <input type="checkbox"/> Trip Blank received <input type="checkbox"/> Trip Blank not listed on COC Cooler Received (Date/Time) <u>9/15/17 0951</u> Paperwork Delivered (Date/Time) <u>9/15/17 1504</u> ≤1 Hour Goal Met? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---



SAMPLE PRESERVATION VERIFICATION FORM

page 1 of 2

Client <i>Northern Analytical</i>	Work Order # <i>462624</i>
Receipt Log # <i>23-8</i>	Completed By (initials/date) <i>LA 9/15/17</i>
Project Chemist	

COC ID # <i>2166429</i>				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15						
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe						
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	HNO ₃	HNO ₃						
Expected pH	>12	<2	<2	<2	<2						
COC Line #1				✓							
COC Line #2				✓							
COC Line #3				✓							
COC Line #4				✓							
COC Line #5				✓							
COC Line #6				✓							
COC Line #7				✓							
COC Line #8				✓							
COC Line #9				✓							
COC Line #10				✓							
COC Line #11				✓							
COC Line #12				✓							

pH Strip Reagent # / Lot #

HC601354

Other

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 6 and 15.

Comments

COC ID # <i>2166470</i>				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15						
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe						
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	HNO ₃	HNO ₃						
Expected pH	>12	<2	<2	<2	<2						
COC Line #1				✓							
COC Line #2				✓							
COC Line #3				✓							
COC Line #4				✓							
COC Line #5				✓							
COC Line #6				✓							
COC Line #7				✓							
COC Line #8				✓							
COC Line #9				✓							
COC Line #10				✓							
COC Line #11				✓							
COC Line #12				✓							

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5

Comments



SAMPLE PRESERVATION VERIFICATION FORM

page 2 of 2

Client <i>Northern Analytical</i> Receipt Log # <u>23-8</u>	Work Order # <u>462654</u> Project Chemist <i>JL 9/15/17</i>
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COC ID # <u>2166471</u>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15				
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe				
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	HNO ₃	HNO ₃				
Expected pH	>12	<2	<2	<2	<2				
COC Line #1				✓					
COC Line #2				✓					
COC Line #3				✓					
COC Line #4				✓					
COC Line #5				✓					
COC Line #6				✓					
COC Line #7				✓					
COC Line #8				✓					
COC Line #9				✓					
COC Line #10				✓					
COC Line #11				✓					
COC Line #12				✓					

pH Strip Reagent # / Lot #	
<input checked="" type="checkbox"/>	HC601354
<input type="checkbox"/>	Other

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 6 and 15.

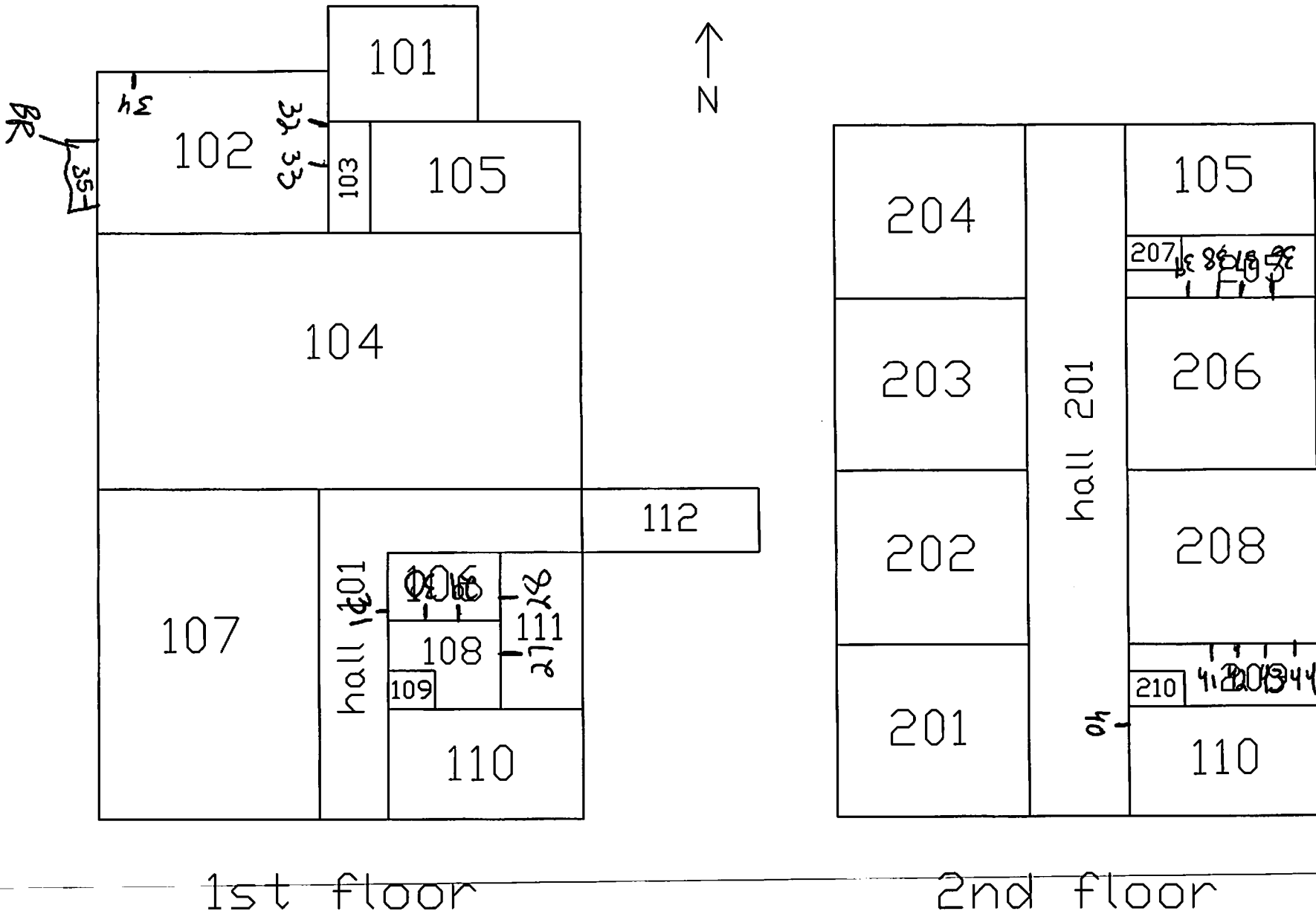
Comments

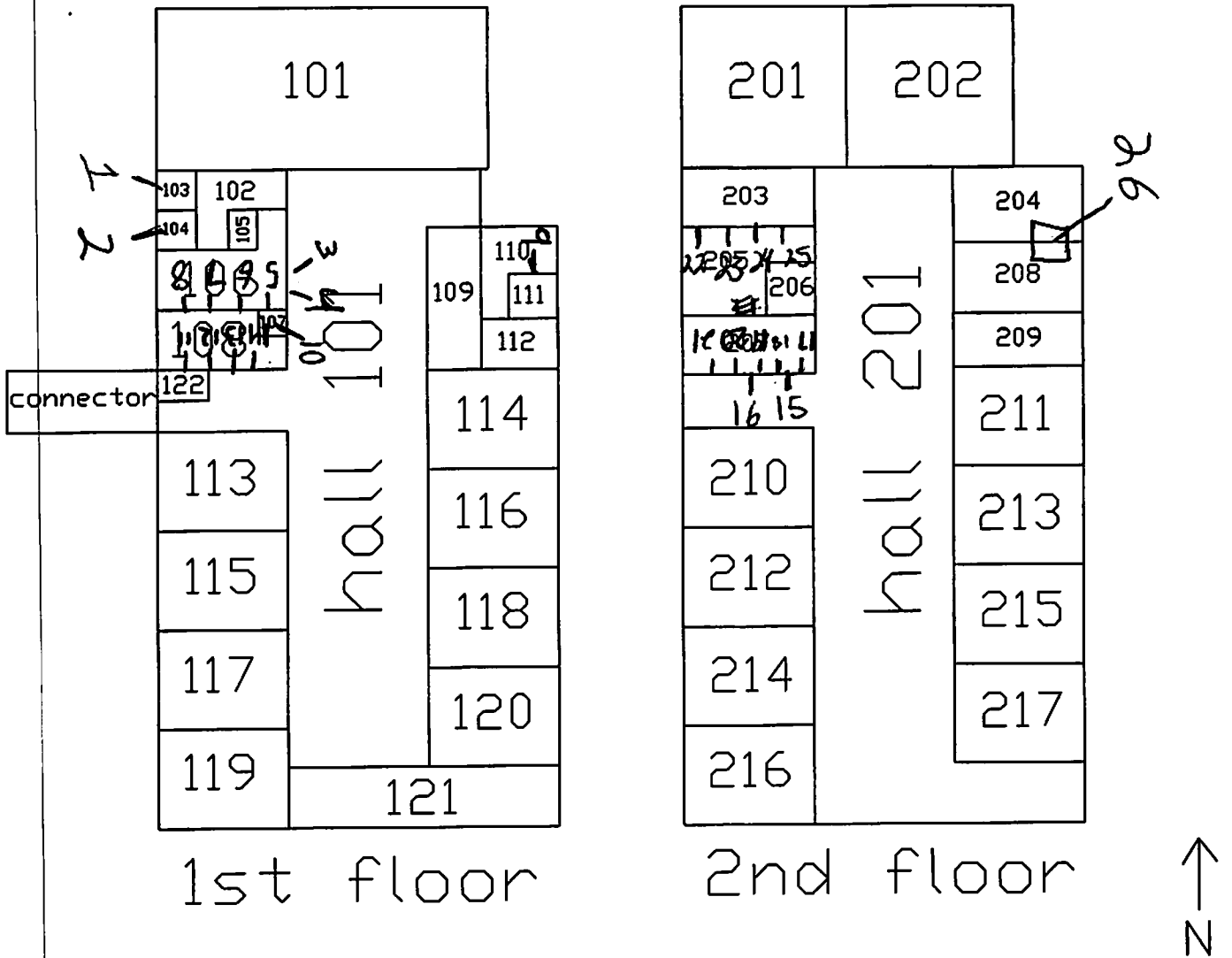
COC ID # <u>2166472</u>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15				
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe				
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	HNO ₃	HNO ₃				
Expected pH	>12	<2	<2	<2	<2				
COC Line #1				✓					
COC Line #2				✓					
COC Line #3				✓					
COC Line #4				✓					
COC Line #5				✓					
COC Line #6				✓					
COC Line #7				✓					
COC Line #8				✓					
COC Line #9				✓					
COC Line #10				✓					
COC Line #11				✓					
COC Line #12				✓					

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5

Comments

Dove Academy of Detroit 1963 Building





Dove Academy of Detroit
1950 Building

Church

1-8:35

2-8:37

