



May 24, 2021

Paul Swieton
Rensselaer-Columbia-Greene Counties and BOCES
10 Empire State Blvd.
FI 2
Castleton On Hudson, NY 12033

RE: Project: SCHOOL 12 5/5
Pace Project No.: 70172380

#### Dear Paul Swieton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Melville

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

Sincerely,

Nicolette M. Lovari nicolette.lovari@pacelabs.com

nicolette Lovari

(631)694-3040 Project Manager

**Enclosures** 

cc: Robert Garland, Troy Clty SD Tim LeVan, Questar III







#### **CERTIFICATIONS**

Project: SCHOOL 12 5/5
Pace Project No.: 70172380

Pace Analytical Services Long Island

Virginia Certification # 460302 Delaware Certification # NY10478 Delaware Certification # NY10478 575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350 Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340 Massachusetts Certification #: M-NY026 New Hampshire Certification #: 2987



Date: 05/24/2021 05:52 PM

# **ANALYTICAL RESULTS**

Sample: PS12-01-DW-P-330	Lab ID: 701	72380001	Collected: 05/05/2	21 05:59	Received: 05	5/10/21 11:40	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met							
Lead	13.4	ug/L	1.0	1		05/24/21 12:52	2 7439-92-1	



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-01-BF3-P-339	Lab ID: 70	172380002	Collected: 05/05/2	21 06:00	Received: 05	5/10/21 11:40 I	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	<1.0	ug/L	1.0	1		05/24/21 12:53	7439-92-1	



Date: 05/24/2021 05:52 PM

#### **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5
Pace Project No.: 70172380

Sample: PS12-02-DW-P-353 Lab ID: 70172380003 Collected: 05/05/21 06:05 Received: 05/10/21 11:40 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

Pace Analytical Services - Melville

Lead 17.8 ug/L 1.0 1 05/24/21 12:54 7439-92-1



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-02-CF-P-362	Lab ID: 70°	72380004	Collected: 05/05/2	21 06:06	Received: 05	5/10/21 11:40 <b>N</b>	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me							
Lead	11.4	ug/L	1.0	1		05/24/21 12:55	7439-92-1	



Date: 05/24/2021 05:52 PM

# **ANALYTICAL RESULTS**

Sample: PS12-02-DW-P-363	Lab ID: 701	72380005	Collected: 05/05/2	21 06:06	Received: 05	5/10/21 11:40 <b>N</b>	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met Pace Analytica							
Lead	16.6	ug/L	1.0	1		05/24/21 12:56	7439-92-1	



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-02-CF-P-365	Lab ID: 70°	72380006	Collected: 05/05/2	21 06:08	Received: 05	5/10/21 11:40 I	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me							
Lead	18.6	ug/L	1.0	1		05/24/21 12:57	7439-92-1	



Date: 05/24/2021 05:52 PM

# **ANALYTICAL RESULTS**

Sample: PS12-02-CF-P-370	Lab ID: 70	172380007	Collected: 05/05/2	21 06:10	Received: 05	/10/21 11:40	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me							
Lead	<b>5.5</b>	ua/l	1.0	4		05/24/21 12:5	7 7420 02 4	



Date: 05/24/2021 05:52 PM

# **ANALYTICAL RESULTS**

Sample: PS12-02-DW-P-371	Lab ID: 70°	72380008	Collected: 05/05/2	21 06:10	Received: 0	5/10/21 11:40 I	Matrix: Drinking	g Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me	thod: EPA 20	0.8					
	Pace Analytic	al Services -	Melville					
Lead	27.6	ug/L	1.0	1		05/24/21 13:00	7439-92-1	M1



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-03-DW-P-377	Lab ID: 70°	72380009	Collected: 05/05/2	21 06:13	Received: 05	5/10/21 11:40	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me							
Lead	162	ug/L	1.0	1		05/24/21 13:05	7439-92-1	



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-03-DW-P-386	Lab ID: 70	172380010	Collected: 05/05/2	21 06:16	Received: 05	5/10/21 11:40	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Me Pace Analytic							
Lead	20.8	ug/L	1.0	1		05/24/21 13:06	7439-92-1	



# **ANALYTICAL RESULTS**

Project: SCHOOL 12 5/5

Pace Project No.: 70172380

Sample: PS12-03-BF4-P-394	Lab ID: 701	72380011	Collected: 05/05/2	21 06:17	Received: 0	5/10/21 11:40	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Met							
Lead	2.0	ug/L	1.0	1		05/24/21 13:07	7439-92-1	



#### **QUALITY CONTROL DATA**

Project: SCHOOL 12 5/5
Pace Project No.: 70172380

QC Batch: 210130 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70172380001, 70172380002, 70172380003, 70172380004, 70172380005, 70172380006, 70172380007

METHOD BLANK: 1050177 Matrix: Water

Associated Lab Samples: 70172380001, 70172380002, 70172380003, 70172380004, 70172380005, 70172380006, 70172380007

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Lead
 ug/L
 <1.0</td>
 1.0
 05/24/21 12:30

LABORATORY CONTROL SAMPLE: 1050178

Spike LCS LCS % Rec Conc. Limits Parameter Units Result % Rec Qualifiers Lead 50.9 102 85-115 ug/L

MATRIX SPIKE SAMPLE: 1050181

70172377001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers <1.0 Lead ug/L 50 59.6 119 70-130

MATRIX SPIKE SAMPLE: 1050183

70172379004 MS MS % Rec Spike Parameter Units Result Conc. Result % Rec Limits Qualifiers <1.0 70-130 M1 Lead ug/L 50 66.6 133

SAMPLE DUPLICATE: 1050180

 Parameter
 Units
 70172377001 Result
 Dup Result
 RPD
 Qualifiers

 Lead
 ug/L
 <1.0</td>
 <1.0</td>

SAMPLE DUPLICATE: 1050182

Date: 05/24/2021 05:52 PM

70172379004 Dup

Parameter Units Result Result RPD Qualifiers

Lead ug/L <1.0 <1.0

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.



#### **QUALITY CONTROL DATA**

SCHOOL 12 5/5 Project: Pace Project No.: 70172380

QC Batch: 210133 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water

> Laboratory: Pace Analytical Services - Melville

> > LCS

% Rec

70172380008, 70172380009, 70172380010, 70172380011 Associated Lab Samples:

METHOD BLANK: Matrix: Water Associated Lab Samples: 70172380008, 70172380009, 70172380010, 70172380011

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Lead <1.0 1.0 05/24/21 12:58 ug/L

LABORATORY CONTROL SAMPLE: 1050185

Spike Conc. % Rec Limits Parameter Units Result Qualifiers Lead 50.5 101 85-115 ug/L

MATRIX SPIKE SAMPLE: 1050187

MS % Rec 70172380008 Spike MS Parameter Units Result Conc. Result % Rec Limits Qualifiers 27.6 70-130 M1 Lead ug/L 50 96.3 137

LCS

MATRIX SPIKE SAMPLE: 1050189 70172381007 MS MS % Rec Spike % Rec Parameter Units Result Conc. Result Limits Qualifiers 37.1 Lead ug/L 50 97.5 121 70-130

SAMPLE DUPLICATE: 1050186

70172380008 Dup RPD Parameter Units Result Result Qualifiers 27.6 2 Lead ug/L 27.1

SAMPLE DUPLICATE: 1050188

Date: 05/24/2021 05:52 PM

70172381007 Dup **RPD** Qualifiers Parameter Units Result Result 37.1 37.3 Lead ug/L 1

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.



#### **QUALIFIERS**

Project: SCHOOL 12 5/5
Pace Project No.: 70172380

#### **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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

#### **ANALYTE QUALIFIERS**

Date: 05/24/2021 05:52 PM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: SCHOOL 12 5/5
Pace Project No.: 70172380

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70172380001	PS12-01-DW-P-330	EPA 200.8	210130		
70172380002	PS12-01-BF3-P-339	EPA 200.8	210130		
70172380003	PS12-02-DW-P-353	EPA 200.8	210130		
70172380004	PS12-02-CF-P-362	EPA 200.8	210130		
70172380005	PS12-02-DW-P-363	EPA 200.8	210130		
70172380006	PS12-02-CF-P-365	EPA 200.8	210130		
70172380007	PS12-02-CF-P-370	EPA 200.8	210130		
70172380008	PS12-02-DW-P-371	EPA 200.8	210133		
70172380009	PS12-03-DW-P-377	EPA 200.8	210133		
70172380010	PS12-03-DW-P-386	EPA 200.8	210133		
70172380011	PS12-03-BF4-P-394	EPA 200.8	210133		

# POTABLE WATER SAMPLING FOR LEAD CONCENTRATION SAMPLE COLLECTION FORM

Appendix D

Page 1 of 1

School 12 475 first Street Troy NY 12180 Robert Garland 518-328-5426 Robert Garland **Enlarged City School District of Troy** 475 First Street Troy NY 12180 Client Rep: SCHOOL/PROJECT INFORMATION CONTACT NAME & NUMBERS: CLIENT INFORMANTION BLDG NO./NAME: BLDG ADDRESS: Name: Address:

(5) Yr. 2nd Mod:

(4) Yr 1st Mod:

(3) Yr 2nd Add: 2001

1973

1931

(1) Yr. Built (2) Yr 1st Add:

Brock Crouch 5/5/2021 Tim LeVan Samples Taken By: Samples Taken By: Date of Sampling:

MO#: 70172380

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Sample Description	Sample Description ID (ID must match container label)			Outlet Information									
							Time of		Time of	Service	Time of		Time of
Lab Sample	BOCES Sample #	Location	Outlet Description	Outlet Make & Model	Construct.		Collection	30 Second	Collection	Connection	Collection	Water Main	Collection
#					Date	First Draw	(24hr)	Flush Draw	(24hr)	Draw	(24hr)	Draw	(24hr)
330	PS12-01-DW-P-330	126 weight room	Water fountain			×	5:59						
331	PS12-01-BF-P-331	Weight room bathroom	Sink			×	Mixing Valve, No Sample	No Sample					
339	PS12-01-BF3-P-339	Boys room	Sink 3			×	00:0						
353	PS12-02-DW-P-353	Corridor	Water fountain			×	6:05						
362	PS12-02-CF-P-362	217	Sink			×	4.06						
363	PS12-02-DW-P-363	217	Water fountain			×	10:06						
365	PS12-02-CF-P-365	218	Sink 2			×	80:9						
370	PS12-02-CF-P-370	220	Sink			×	01.9						
371	PS12-02-DW-P-371	220	Water fountain			×	01:7						
377	PS12-03-DW-P-377	321	Water fountain			×	6:13						
386	PS12-03-DW-P-386	Corridor	Water fountain			×	91:7						
394	PS12-03-BF4-P-394	Girls room	Sink 4			×	617						
	,												
		14											

All containers are pre-cleaned/pre-certified 250ml plastic bottles and will be preserved w/HNO3@ pH by lab

CHAIN OF CUSTODY

Date: 516121 Time: 8:25 ears tente Soco d m Received By: トナック Relinquished By:

INSTRUCTIONS TO THE LABORATORY - Analize all samples for lead (Pb)

PACE Analytical

Lab:

To Debotact: (Bomments: Provide Laboratory Data Report (LDR) and Chain of Custody ଦ ର

	Sa	mple t	onaitio,	n opon ke	ceipt	
Flore Apply tigal		•				2380
Face Analytical "	Client Na	ime: \		Proj		2300
	Enla	used (	city of	Troy CS	PM: NML Du	e Date: 05/24/21
Courier: ☐ Fed Ex ☐ UPS ☐ USPS 🗹 Client	Comme	ercial 🗅	ace []Other	r ·	CLIENT: QUESTAR	
Tracking #.					CLIENI: GOESTIN	
Custody Seal on Cooler/Box Present: TY	es 🗀 🕇 🗸	Seals int	tact: 🗌 Yes	→ No	type of Ice: Wet Bl	ua Atomia
Packing Material: Bubble Wrap Bubbl	e Bags 🔲	Zipioc 🗾	Mone [] on	161	Samples on ice, cooling	aragges has begun
Thermometer Used: TH091	Correcti	on Factor:	10.1			placed in freezer
Cooler Temperature(°C): /9.5	Cooler T	emperatu	re Correcte	d(°C): 19.5	Date/Tille 5055A Kits	placed in incozor
Temp should be above freezing to 6.0°C USDA Regulated Soil ( \Bullet N/A, water sample	el			Date and Initia	als of person examining conten	
Did samples originate in a quarantine zone	vithin tha ll	nited State	S AL AR CA	FL, GA, ID, LA, M	S, NC, Did samples orignate fr	om a foreign source
						uerto Rico)? ☐ Yes\ No
NM, NY, OK, OR, SC, TN, TX, or VA (check map If Yes to either question, fill out a Regula	tod Soil Ch	ocklist (F.	-I.I-C-010) a	nd include with	SCUR/COC paperwork.	
If Yes to either question, fill out a Regula	iten son en	icornor fi	LI 0 0.17		COMMENTS:	
Ol -if Ot- t- Present	zİyes	□No		1.		
Chain of Custody Present:	✓Yes	□No		2.		
Chain of Custody Filled Out:	/ □Yes	□No		3.		
Chain of Custody Relinquished:	Yes	□No	□N/A	4.		
Sampler Name & Signature on COC:	ZYes	□No	22000	5.		
Samples Arrived within Hold Time:	□Yes	⊠No		6.		
Short Hold Time Analysis (<72hr):	□Yes	ZNO		7.		
Rush Turn Around Time Requested:		□No		8.		
Sufficient Volume: (Triple volume provided t	☑Yes	No		9.	*	
Correct Containers Used:	ZYes	□No				
-Pace Containers Used:	ZiYes			10.		
Containers Intact:		□No	ZN/A	11. No	te if sediment is visible in the diss	solved container,
Filtered volume received for Dissolved tests			1	12.		
Sample Labels match COC:						
-Includes date/time/ID, Matrix: SL W	OOD FIMOS	□No	□N/A	13.	HNO₃ □H₂SO₄ □NaOH	□ HCl
All containers needing preservation have b	eenches	<u> </u>	<b></b> , , ,	1		
checked?	007-					
pH paper Lot # All containers needing preservation are for				Sample #		
in compliance with method recommendati	on?					
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide,	□¥es	□No	□N/A			
NAOH>12 Cyanide)	7					
Exceptions: VOA, Coliform, TOC/DOC, Oil and	d Grease.					In the Indian accompanies
DRO/8015 (water).				Initial when co		Date/Time preservative
Per Method, VOA pH is checked after analy	sis				preservative:	added:
Samples checked for dechlorination:	□Yes	□No	ØN/A	14.		
KI starch test strips Lot #						
Residual chlorine strips Lot #					itive for Res. Chlorine? Y N	
SM 4500 CN samples checked for sulfide?	□Yes	□No	ØN/A	15.		
Lead Acetate Strips Lot #			/			
Headspace in VOA Vials ( >6mm):	□Yes	□No	ZN/A	16.		
Trip Blank Present:	□Yes	□No	ØN/A	17.		
Trip Blank Custody Seals Present	□Yes	□No	/ZIN/A			
Pace Trip Blank Lot # (if applicable):						
Client Notification/ Resolution:				Field Data Re		
Person Contacted:				D	ate/Time:	
Comments/ Resolution:						

8741

<sup>•</sup> PM (Project Manager) review is documented electronically in LIMS:

# **CLIENT INFORMANTION**

Name:	<b>Enlarged City School District of Troy</b>	
Address:	475 First Street Troy NY 12180	
Client Rep:	Bob Garland	

Date of Sampling: 12/4/2020	5/5/2021
Samples Taken By: Tim LeVan	Tim LeVan
Samples Taken By: Rich Stevens	Brock Crouch

# SCHOOL/PROJECT INFORMATION

BLDG NO./NAME:	PS12
BLDG ADDRESS:	475 First Street Troy NY 12180
CONTACT NAME & NUMBERS:	Bob Garland 518-328-5426

(1) Yr. Built	(2) Yr 1st Add:	(3) Yr 2nd Add:	(4) Yr 1st Mod:	(5) Yr. 2nd Mod:

# SAMPLE DATA

Sample Descript	tion ID (ID must match contain	ner label)		Outlet Information						
							Lead test	Lead test		
Lab Sample	DOCEC Cample #	Location	Outlet Description	Outlet Make & Model			Results ug/L	Results ug/L	Lead test	
#	BOCES Sample #	Location	Outlet Description	Outlet Make & Model	Construct.	First	from	from	Results ug/L	
					Date	Draw	12/04/2020	5/5/2021	from	Remediation
379	PS12-03-DW-P-379	318	Water fountain			Х	3.6			
380	PS12-03-OF-P-380	317	Sink			Х	12.3			
381	PS12-03-DW-P-381	317	Water fountain			Х	4.7			
382	PS12-03-OF-P-382	322	Sink			Х	9			
383	PS12-03-DW-P-383	322	Water fountain			Х	12.4			
384	PS12-03-OF-P-384	316	Sink			Х	7.1			
385	PS12-03-DW-P-385	316	Water fountain			Х	6.8			
386	PS12-03-DW-P-386	Corridor	Water fountain			Х	21.3	20.8		Shut off for repair
387	PS12-03-OF-P-387	323	Sink			Х	No access, No s	ample		
388	PS12-03-DW-P-388	323	Water fountain			Х	No access, No s	ample		
389	PS12-03-BF1-P-389	Corridor	Bathroom sink 1			Х	1.4			
390	PS12-03-BF2-P-390	Corridor	Bathroom sink 2			Х	1.1			
391	PS12-03-BF1-P-391	Girls room	Sink 1			Х	<1.0			
392	PS12-03-BF2-P-392	Girls room	Sink 2			Х	<1.0			
393	PS12-03-BF3-P-393	Girls room	Sink 3			Х	<1.0			
394	PS12-03-BF4-P-394	Girls room	Sink 4			Х	Not working	2		
395	PS12-03-DW-P-395	Corridor	Water fountain			Х	<1.0			
396	PS12-03-DW-P-396	Corridor	Bottle filler			Х	<1.0			
397	PS12-03-BF-P-397	Mens room	Sink			Х	5.9			
398	PS12-03-SF-P-398	Faculty room	Sink			Х	4.8			
399	PS12-03-BF-P-399	Womens room	Sink			Х	4.3			
400	PS12-03-DW-P-400	Corridor	Water fountain			Х	6.2			
401	PS12-03-BF1-P-401	Boys room	Sink 1			Х	<1.0			
402	PS12-03-BF2-P-402	Boys room	Sink 2			Х	<1.0			
403	PS12-03-BF3-P-403	Boys room	Sink 3			X	Not working			

All containers are pre-cleaned/pre-certified 250ml plastic bottles and will be preserved w/HNO3@ pH by lab

# **CHAIN OF CUSTODY**

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	ody	