

June 27, 2018

Mark Ruhnke  
Eisenbach & Ruhnke  
291 Genesee Street  
Utica, NY 13501

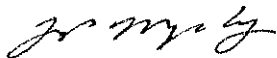
RE: Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Dear Mark Ruhnke:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2018. 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,



James Murphy  
james.murphy@pacelabs.com  
(518)346-4592  
Project Manager

Enclosures

cc: Larry Kinne, Eisenbach & Ruhnke



## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
575 Broad Hollow Road  
Melville, NY 11747  
(631)694-3040

## CERTIFICATIONS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

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### Long Island Certification IDs

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

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7056063001	GA1 KITCHEN SINK	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063002	GA2 NURSE OFFICE BATHROOM SINK	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063003	GA3 MAIN FLOOR FOUNTAIN 1 LEFT	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063004	GA4 MAIN FLOOR FOUNTAIN 2 RIGHT	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063005	GA5 BOYS BATHROOM SINK 1 LEFT	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063006	GA6 BOYS BATHROOM SINK 2 RIGHT	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063007	GA7 GIRLS BATHROOM SINK 1 LEFT	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063008	GA9 FOUNTAIN 2ND FLOOR	Drinking Water	06/21/18 00:00	06/23/18 10:30
7056063009	GA10 SINK IN ART ROOM	Drinking Water	06/21/18 00:00	06/23/18 10:30

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### SAMPLE ANALYTE COUNT

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7056063001	GA1 KITCHEN SINK	EPA 200.8	SK2	1
7056063002	GA2 NURSE OFFICE BATHROOM SINK	EPA 200.8	SK2	1
7056063003	GA3 MAIN FLOOR FOUNTAIN 1 LEFT	EPA 200.8	SK2	1
7056063004	GA4 MAIN FLOOR FOUNTAIN 2 RIGH	EPA 200.8	SK2	1
7056063005	GA5 BOYS BATHROOM SINK 1 LEFT	EPA 200.8	SK2	1
7056063006	GA6 BOYS BATHROOM SINK 2 RIGHT	EPA 200.8	SK2	1
7056063007	GA7 GIRLS BATHROOM SINK 1 LEFT	EPA 200.8	SK2	1
7056063008	GA9 FOUNTAIN 2ND FLOOR	EPA 200.8	SK2	1
7056063009	GA10 SINK IN ART ROOM	EPA 200.8	SK2	1

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: GA1 KITCHEN SINK	Lab ID: 7056063001	Collected: 06/21/18 00:00	Received: 06/23/18 10:30	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							
Lead	2.5	ug/L	1.0	1		06/26/18 16:37	7439-92-1	

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**ANALYTICAL RESULTS**

Project: GREENBURGH NORTH CASTLE  
 Pace Project No.: 7056063

Sample: GA2 NURSE OFFICE BATHROOM SINK		Lab ID: 7056063002	Collected: 06/21/18 00:00	Received: 06/23/18 10:30	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	2.7	ug/L	1.0	1		06/26/18 16:46	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: GA3 MAIN FLOOR FOUNTAIN 1 LEFT      Lab ID: 7056063003      Collected: 06/21/18 00:00      Received: 06/23/18 10:30      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	<1.0	ug/L	1.0	1		06/26/18 17:01	7439-92-1	

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 Melville, NY 11747  
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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
 Pace Project No.: 7056063

Sample: GA4 MAIN FLOOR FOUNTAIN 2 RIGH      Lab ID: 7056063004      Collected: 06/21/18 00:00      Received: 06/23/18 10:30      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>								
Analytical Method: EPA 200.8								
Lead	<1.0	ug/L	1.0	1		06/26/18 17:04	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: **GA5 BOYS BATHROOM SINK 1 LEFT**      Lab ID: **7056063005**      Collected: 06/21/18 00:00      Received: 06/23/18 10:30      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8							
Lead	1.2	ug/L	1.0	1		06/26/18 17:07	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: GA6 BOYS BATHROOM SINK 2 RIGHT    Lab ID: 7056063006    Collected: 06/21/18 00:00    Received: 06/23/18 10:30    Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.0	ug/L	1.0	1		06/26/18 17:10	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: GA7 GIRLS BATHROOM SINK 1 LEFT		Lab ID: 7056063007	Collected: 06/21/18 00:00	Received: 06/23/18 10:30	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	1.9	ug/L	1.0	1		06/26/18 17:13	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE

Pace Project No.: 7056063

Sample: **GA9 FOUNTAIN 2ND FLOOR**      Lab ID: **7056063008**      Collected: 06/21/18 00:00      Received: 06/23/18 10:30      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8						
Lead	2.3	ug/L	1.0	1		06/26/18 17:16	7439-92-1	

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### ANALYTICAL RESULTS

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

Sample: GA10 SINK IN ART ROOM Lab ID: 7056063009 Collected: 06/21/18 00:00 Received: 06/23/18 10:30 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						
Lead	1.0	ug/L	1.0	1		06/26/18 17:20	7439-92-1	

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**QUALITY CONTROL DATA**

Project: GREENBURGH NORTH CASTLE  
 Pace Project No.: 7056063

QC Batch: 72970 Analysis Method: EPA 200.8  
 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water  
 Associated Lab Samples: 7056063001, 7056063002, 7056063003, 7056063004, 7056063005, 7056063006, 7056063007, 7056063008, 7056063009

METHOD BLANK: 334786 Matrix: Water  
 Associated Lab Samples: 7056063001, 7056063002, 7056063003, 7056063004, 7056063005, 7056063006, 7056063007, 7056063008, 7056063009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/26/18 16:31	

LABORATORY CONTROL SAMPLE: 334787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.2	100	85-115	

MATRIX SPIKE SAMPLE: 334789

Parameter	Units	7056063001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.5	2	4.7	106	70-130	

MATRIX SPIKE SAMPLE: 334791

Parameter	Units	7056063002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.7	2	5.0	115	70-130	

SAMPLE DUPLICATE: 334788

Parameter	Units	7056063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	2.5	2.4	6	20	

SAMPLE DUPLICATE: 334790

Parameter	Units	7056063002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	2.7	2.6	2	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: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

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### 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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GREENBURGH NORTH CASTLE  
Pace Project No.: 7056063

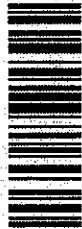
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7056063001	GA1 KITCHEN SINK	EPA 200.8	72970		
7056063002	GA2 NURSE OFFICE BATHROOM SINK	EPA 200.8	72970		
7056063003	GA3 MAIN FLOOR FOUNTAIN 1 LEFT	EPA 200.8	72970		
7056063004	GA4 MAIN FLOOR FOUNTAIN 2 RIGHT	EPA 200.8	72970		
7056063005	GA5 BOYS BATHROOM SINK 1 LEFT	EPA 200.8	72970		
7056063006	GA6 BOYS BATHROOM SINK 2 RIGHT	EPA 200.8	72970		
7056063007	GA7 GIRLS BATHROOM SINK 1 LEFT	EPA 200.8	72970		
7056063008	GA9 FOUNTAIN 2ND FLOOR	EPA 200.8	72970		
7056063009	GA10 SINK IN ART ROOM	EPA 200.8	72970		

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WO#: 7056063



7056063

CHAIN OF CUSTODY

Invoice to: Eisenbach and Ruhnke Engineering, P.C.  
 Attn: ~~Joe~~ Joe Smith  
 Project # 35-18-01  
 PO #  
 Contact Person: M. F. Hunkle  
 email Results to: M.F.Hunkle@erengpc.com  
 ANALYSIS

PROJECT NAME: Greenburgh North Castle UFSD - Greenburgh Academy

LAB ID - FOR LAB USE ONLY	CLIENT SAMPLE ID	SOIL (S)/WATER (W)	DATE	Time	Analysis	Analysis	Analysis	Analysis
	GA 1 Kitchen sink	W	6/21/18		X			
	GA 2 Nurse office bathroom sink	W			X			
	GA 3 Main Floor Fountain 1 (left)	W			X			
	GA 4 Main Floor Fountain 2 (right)	W			X			
	GA 5 Boys Bathroom Sink 1 (Left)	W			X			
	GA 6 Boys Bathroom Sink 2 (Right)	W			X			
	GA 7 Girls Bathroom Sink 1 (left)	W			X			
	GA 9 Fountain 2nd floor	W			X			
	GA 10 Sink in Art Room	W			X			

NOTES:

SAMPLER NAME AND SIGNATURE: Matt Ingram

PRINT Name of SAMPLER: Matt Ingram

SIGNATURE of SAMPLER: *[Signature]*

DATE Sampled (MM/DD/YYYY): 6/21/18

Relinquished BY: *[Signature]*

Accepted By: *[Signature]* (PACE)

Relinquished BY: *[Signature]* (PACE)

Accepted By: *[Signature]*

Date	Time
6/22/18	13:12
6/22/18	13:12
6/23/18	16:00
6/23/18	10:30

Temp in °C	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
26.2(18)	N		Y



Sample Condition Upon Receipt

Client Name: Er Senbach + Ruhn

WO#: **7056063**  
PM: JM2 Due Date: 06/28/18  
CLIENT: ER

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 4144 8129 3708  
Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other  
Thermometer Used: TH091 Correction Factor: 0.0

Cooler Temperature (°C): \_\_\_\_\_ Cooler Temperature Corrected (°C): \_\_\_\_\_ Date/Time 5035A kits placed in freezer \_\_\_\_\_  
Temperature Blank Present:  Yes  No  
Type of Ice: Wet Blue None  
 Samples on ice, cooling process has begun

Temp should be above freezing to 6.0°C

USDA Regulated Soil  N/A, water sample

Date and Initials of person examining contents: JK 6/23/18

Did samples originate in a quarantine zone within the United States; AL, AR, CA, FL, GA, ID, IA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  YES  NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7.
Sufficient Volume; (Triple volume provided for MS/MSD):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		12.
-Includes date/time/ID/Analysis Matrix SL (WT) OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>H1739245</u>			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water), Per Method, VOA pH is checked after analysis			
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #			
Residual chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if applicable): _____			

Client Notification/ Resolution: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Person Contacted: \_\_\_\_\_  
Comments/ Resolution: \_\_\_\_\_

\* PM (Project Manager) review is documented electronically in LIMS.