

February 20, 2017

David Spacone
City School District of the City of Niagara Falls
Director of Facilities
630 – 66th Street
Niagara Falls, NY 14304

Re: Follow-Up Sampling of Drinking Water for Lead Concentrations

Dear Mr. Spacone:

Included with this letter is Stohl Environmental LLC's report for the follow-up Water Sampling performed at the educational buildings of the City School District of the City of Niagara Falls:

- Harry F. Abate Elementary School, 1625 Lockport Street, Niagara Falls, NY

This report is prepared to assist the District in complying with the requirements of NYS regulations, *SUBPART 67-4: Lead Testing in School Drinking Water*, by identifying the sources of potable water with lead concentrations greater than the NYS "Action Level of 15 parts per billion (ppb)".

Initial Sampling and Analysis: In Compliance with NYS regulations, initial first draw water sampling was completed on 9/24/2016 and 18 samples were identified as containing lead concentrations above the NYS Action Level of 15 ppb.

Mitigation by District and Follow-up Sampling by Stohl Environmental LLC:

- Following the receipt of initial sampling results, in accordance with guidance received from NYS, the District is reported to have prohibited use of the outlets analyzed as above the NYS Action Level of 15 ppb until "(1) a lead remediation plan is implemented... and (2) test results indicate that the lead levels are at or below the action level".
- Subsequent to reported mitigation by the District, Stohl Environmental LLC was requested to perform follow-up sampling and laboratory analysis.
- Follow-up sampling was performed by Stohl Environmental LLC in accordance with the requirements and protocols outlined in NYS regulations, as well as USEPA Technical Guidance Document "3-T's for Reducing Lead in Drinking Water in Schools".

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Results of Follow-up Sampling: As further detailed in Section 1.2 (*Executive Summary*) of the accompanying report, based upon the follow-up sampling and analysis performed, the following is reported:

- **Follow-up First Draw Samples:** Following remediation by the District, or for confirmatory purposes, 18 outlets were re-sampled on 11/30/2016 and analyzed by a certified and independent laboratory. **Of the 18 samples collected, 11 of these follow-up samples contained lead concentrations above the action level.**

Interpretation of First Draw Sampling Results: Under NYSDOH regulations Section 67-4.4, for the (11) outlets that continue to have First Draw test results above the NYS action level, the District must “prohibit use of the outlet until lead remediation is implemented and (First Draw) test results indicate that lead levels are at or below the action level.”

- **Flush Samples:** As additional confirmation of lead concentrations, and in an attempt to determine whether lead concentrations above the action level result from the outlet/fixture or from the plumbing to the outlet, 18 flush samples were also collected from these same outlets on 11/30/2016 and submitted to and analyzed by a certified and independent laboratory. All 18 sample results indicated lead concentrations were below the action level.

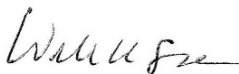
Interpretation of Flush Sampling Results: As detailed in EPA guidance (“3T’s for Reducing Lead in Drinking Water in Schools”), *“If initial test results reveal lead concentrations greater than (the action level) for a given outlet, follow-up flush testing... is recommended to determine if the lead contamination results are from the fixture or from the plumbing.”*

Based upon this guidance, for the (11) outlets tested on 11/30/16 that continue to have First Draw Sample lead concentrations above the action level, the Flush Sample results infer that the source of lead at these outlets is the fixture, rather than the plumbing to the fixture.

Note: the Follow-up First Draw sample for 111.4-191, Exterior Hose Bib, South Wall, while collected, was not received by the laboratory, therefore was not analyzed.

Thank you for the opportunity to be of service to City School District of the City of Niagara Falls.

Sincerely,
Stohl Environmental, LLC.



William K. Sisco
Senior Project Manager

**Follow-Up Investigation and Sampling
Of Sources of Potable Water
For Lead Concentrations**

Prepared for:

**David Spacone
City School District of the City of Niagara Falls
Director of Facilities
630 – 66th Street
Niagara Falls, NY 14304**

Prepared by:



ENVIRONMENTAL CONSULTANTS - A MEMBER OF THE STOHL GROUP OF COMPANIES

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Conditions as of November 30, 2016



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Summary Tabulation

Lead in Drinking Water Investigation

- 1.1. Scope of Work and Sampling Protocol
- 1.2. Executive Summary of Sampling and Analysis
- 1.3. Response Actions Required Under NYS Regulations
- 1.4. Laboratory Analytical Reports by Building
- 1.5. Laboratory Certifications
- 1.6. Chains of Custody

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1.1 Sampling Protocol and Summary of Results:

Stohl Environmental was retained by City School District of the City of Niagara Falls to perform follow-up sampling and analysis of potable water outlets that were identified in report dated 11/23/2016 as having lead concentrations greater than the NYS action level of 15 ppb. Sampling was performed in the following buildings:

- Harry F. Abate Elementary School, 1625 Lockport Street, Niagara Falls, NY

Scope of Work:

Stohl Environmental was charged with collecting follow-up water samples from outlets which previously were analyzed as having lead concentrations above 15 ppb in Harry F. Abate Elementary School. Outlets are defined in NYS regulations as: “a potable water fixture currently or potentially used for drinking or cooking purposes, including but not limited to a bubbler, drinking fountain, or faucets”.

Sampling Protocol:

In accordance with NYS regulations, **Subpart 67-4: Lead Testing in School Drinking Water**, and the EPA guidance document, **‘3Ts for Reducing Lead in Drinking Water in Schools’**, Stohl Environmental’s protocol can be summarized as follows:

- **Follow-up Samples** were collected to verify initial findings of lead contaminations, to assist in problem assessment to determine remediation, and/or verify that lead levels are at or below action level post-remediation. Confirmatory samples were collected as follows:
 - **Follow-up First-Draw samples** of 250 milliliters (mL) were collected from cold water outlets before any water was used. Sampling was coordinated with District representatives to assure that water was motionless in the pipes for a minimum of 8 hours, but not more than 18 hours before sample collection.
 - **To supplement follow-up first draw samples, in some instances, Flush samples** of 250 mL were collected from cold water outlets after the outlet was run for 30 seconds before any water was used or following a second first-draw sample at the same outlet. Sampling was coordinated with District representatives to assure that water was motionless in the pipes for a minimum of 8 hours, but not more than 18 hours before sample collection.
 - **Laboratory Analysis:** Samples were submitted following strict chain-of-custody protocols to an independent laboratory approved by the NYS Department of Health’s Environmental Laboratory Approval Program (ELAP).

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1.2 Executive Summary of Sampling and Analysis:

Total Number of Samples Collected by Building Classified by Initial First Draw & Follow-up Samples

Building Name	Date of Sample Events	Total Number Samples Collected	Initial First Draw Samples		Follow-up Samples			
			Analyzed at or Below Action Level of 15 ppb	Analyzed Above Action Level of 15 ppb	First Draw Samples		Flush Samples	
					Analyzed at or Below Action Level of 15 ppb	Analyzed Above Action Level of 15 ppb	Analyzed at or Below Action Level of 15 ppb	Analyzed Above Action Level of 15 ppb
Harry F. Abate Elementary School	9/24/2016, and 11/30/2016	191	140	18	7	11	0	0

** Follow-up samples are samples collected subsequent to "Step 1" First Draw samples to verify initial findings of lead contamination, to assist in problem assessment to determine remediation and/or verify that lead levels are at or below action level post-remediation.

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Sample Results: Initial First Draw, Follow-up First Draw and Flush Samples

Sample #	Sample Type (Initial First Draw, Follow-up First Draw or Flush)	Sample Location	Fixture/Outlet type	Laboratory Analysis in ppb
111.4-7	Initial First Draw	Room 105	Sink	15.5
111.4-173	Follow-Up First Draw	Room 105	Sink	73.6
111.4-174	Flush	Room 105	Sink	6.77
111.4-13	Initial First Draw	Room 110	Sink	38.6
111.4-13D	Follow-Up First Draw	Room 110	Sink	107
111.4-13F	Flush	Room 110	Sink	4.00
111.4-22	Initial First Draw	Room 122	Sink	65.4
111.4-171	Follow-Up First Draw	Room 122	Sink	44.5
111.4-172	Flush	Room 122	Sink	<5.00
111.4-25	Initial First Draw	Room 124-D	Sink	47.3
111.4-169	Follow-Up First Draw	Room 124	Sink	28.1
111.4-170	Flush	Room 124	Sink	15.0
111.4-59	Initial First Draw	Room 158	Sink	36.8
111.4-159	Follow-Up First Draw	Room 158	Sink	9.96
111.4-160	Flush	Room 158	Sink	<5.00
111.4-61	Initial First Draw	Room 157	Sink	271
111.4-161	Follow-Up First Draw	Room 157	Sink	20.5
111.4-162	Flush	Room 157	Sink	5.11
111.4-62	Initial First Draw	Room 157	Bubbler	95.4
111.4-163	Follow-Up First Draw	Room 157	Bubbler	30.0
111.4-164	Flush	Room 157	Bubbler	<5.00
111.4-63	Initial First Draw	Room 163	Bubbler	18.1
111.4-165	Follow-Up First Draw	Room 163	Bubbler	29.2
111.4-166	Flush	Room 163	Bubbler	9.04
111.4-72	Initial First Draw	Room 175/176	Sink	75.7
111.4-167	Follow-Up First Draw	Room 175/176	Sink	15.1
111.4-168	Flush	Room175/176	Sink	<5.00

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Sample #	Sample Type (Initial First Draw, Follow-up First Draw or Flush)	Sample Location	Fixture/Outlet type	Laboratory Analysis in ppb
111.4-92	Initial First Draw	Room 248	Sink	23.5
111.4-179	Follow-Up First Draw	Room 248	Sink	<5.00
111.4-180	Flush	Room 248	Sink	<5.00
111.4-107	Initial First Draw	Room 202 Bathroom (south end of room)	Sink	53.0
111.4-175	Follow-Up First Draw	Room 202 Bathroom (south end of room)	Sink	14.4
111.4-176	Flush	Room 202 Bathroom (south end of room)	Sink	<5.00
111.4-108	Initial First Draw	Room 202 Bathroom (north end of room)	Sink	15.9
111.4-177	Follow-Up First Draw	Room 202 (north end of room)	Sink	27.2
111.4-178	Flush	Room 202 (north end of room)	Sink	<5.00
111.4-148	Initial First Draw	Exterior East Courtyard	Hose Bib	20.2
111.4-181	Follow-Up First Draw	Exterior East Courtyard	Hose Bib	39.2
111.4-182	Flush	Exterior East Courtyard	Hose Bib	<5.00
111.4-151	Initial First Draw	Exterior South Wall	Hose Bib	41.6
111.4-183	Follow-Up First Draw	Exterior South Wall	Hose Bib	5.48
111.4-184	Flush	Exterior South Wall	Hose Bib	<5.00
111.4-152	Initial First Draw	Exterior Door 1 East	Hose Bib	196
111.4-185	Follow-Up First Draw	Exterior Door 1 East	Hose Bib	7.48
111.4-186	Flush	Exterior Door 1 East	Hose Bib	<5.00
111.4-153	Initial First Draw	Exterior Door 1 West	Hose Bib	393
111.4-187	Follow-Up First Draw	Exterior Door 1 West	Hose Bib	15.1
111.4-188	Flush	Exterior Door 1 West	Hose Bib	<5.00

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Sample Results: Initial First Draw, Follow-up First Draw and Flush Samples Continued

Sample #	Sample Type (Initial First Draw, Follow-up First Draw or Flush)	Sample Location	Fixture/Outlet type	Laboratory Analysis in ppb
111.4-154	Initial First Draw	Exterior Northwest Wall	Hose Bib	277
111.4-189	Follow-Up First Draw	Exterior Northwest Wall	Hose Bib	8.17
111.4-190	Flush	Exterior Northwest Wall	Hose Bib	<5.00
111.4-157	Initial First Draw	Exterior South Wall	Hose Bib	67.0
111.4-191	Follow-Up First Draw	Exterior South Wall	Hose Bib	Sample not received at lab
111.4-192	Flush	Exterior South Wall	Hose Bib	<5.00

1.3 Response Actions Required Under NYS Regulations, Section 67-4.4:

For outlets analyzed with a lead concentration in excess of the NYS Action Level, regulations require:

- (a) Prohibit use of the outlet until:
 - (1) a lead remediation plan is implemented to mitigate the lead level of such outlet; and
 - (2) test results indicate that the lead levels are at or below the action level;
- (b) Provide building occupants with an adequate supply of potable water for drinking and cooking until remediation is performed;
- (c) Report the test results to the local health department as soon as practicable, but no more than one (1) business day after the school received the laboratory report; and
- (d) Notify all staff and all persons in parental relation to students of the test results, in writing, as soon as practicable but no more than ten (10) business days after the school received the laboratory report.



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1.4 Laboratory Analytical Reports by Building



Customer: Stohl Environmental, LLC (4507)
Address: 4169 Allendale Parkway
Blasdell, NY 14219

Order #: 194835

Matrix Drinking Water
Received 12/08/16
Reported 01/24/17

Attn:
Project: Harry F. Abate Elementary
Location: 1625 Lockport St Niagara Falls
Number: 2016L-111.4

PO Number:

Sample ID	Cust. Sample ID	Location	Result	RL*	Units	Analysis Date	Analyst
Parameter		Method					
194835-001	111.4-159	Room 158 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	9.96	5.00	µg/L	01/23/17	SA
194835-002	111.4-160	Room 158 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-003	111.4-161	Room 157 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	20.5	5.00	µg/L	01/23/17	SA
194835-004	111.4-162	Room 157 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	5.11	5.00	µg/L	01/23/17	SA
194835-005	111.4-163	Room 157 Bubbler					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	30.0	5.00	µg/L	01/23/17	SA
194835-006	111.4-164	Room 157 Bubbler					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-007	111.4-165	Room 163 Bubbler					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	29.2	5.00	µg/L	01/23/17	SA
194835-008	111.4-166	Room 163 Bubbler					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	9.04	5.00	µg/L	01/23/17	SA
194835-009	111.4-167	Room 175/176 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	15.1	5.00	µg/L	01/23/17	SA
194835-010	111.4-168	Room 175/176 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-011	111.4-169	Room 124 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	28.1	5.00	µg/L	01/23/17	SA

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.



Customer: Stohl Environmental, LLC (4507)
Address: 4169 Allendale Parkway
Blasdell, NY 14219

Order #: 194835

Matrix Drinking Water
Received 12/08/16
Reported 01/24/17

Attn:
Project: Harry F. Abate Elementary
Location: 1625 Lockport St Niagara Falls
Number: 2016L-111.4

PO Number:

Sample ID	Cust. Sample ID	Location	Result	RL*	Units	Analysis Date	Analyst
Parameter		Method					
194835-012	111.4-170	Room 124 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	15.0	5.00	µg/L	01/23/17	SA
194835-013	111.4-171	Room 122 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	44.5	10.0	µg/L	01/23/17	SA
194835-014	111.4-172	Room 122 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-015	111.4-173	Room 105 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	73.6	10.0	µg/L	01/23/17	SA
194835-016	111.4-174	Room 105 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	6.77	5.00	µg/L	01/23/17	SA
194835-017	111.4-175	Room 202 Far Bath Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	14.4	5.00	µg/L	01/23/17	SA
194835-018	111.4-176	Room 202 Far Bath Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-019	111.4-177	Room 202 Bath Near Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	27.2	5.00	µg/L	01/23/17	SA
194835-020	111.4-178	Room 202 Bath Near Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-021	111.4-179	Room 248 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA
194835-022	111.4-180	Room 248 Sink					
Metals Analysis							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	01/23/17	SA

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Stohl Environmental, LLC (4507)
Address: 4169 Allendale Parkway
Blasdell, NY 14219

Order #: 194835

Matrix: Drinking Water
Received: 12/08/16
Reported: 01/24/17

Attn:
Project: Harry F. Abate Elementary
Location: 1625 Lockport St Niagara Falls
Number: 2016L-111.4

PO Number:

Table with columns: Sample ID, Cust. Sample ID, Location, Parameter, Method, Result, RL*, Units, Analysis Date, Analyst. Rows include various sample IDs (194835-023 to 194835-032) and their corresponding analysis results for Lead.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.



Analysis Report

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Number: 2016L-111.4

PO Number:

Table with columns: Sample ID, Cust. Sample ID, Location, Method, Result, RL*, Units, Analysis Date, Analyst. Includes rows for 194835-033 and 194835-034.

194835-01/24/17 08:46 AM

Abisola O Kasali

Reviewed By: Abisola Kasali
Metals Supervisor

EPA Regulatory Limits

Table with columns: Parameter, Reg. Limit, Unit. Row for Lead with limit 15.0 and unit µg/L.

Certifications

Table with columns: Parameter, Method, Matrix, CA, CT, FL, ND, NJ, NY, RI, VA. Row for Lead with accreditation marks.

Key

Table with columns: State, Regulatory Agency - Lab ID, Certificate Number. Lists states CA, CT, FL, ND, NJ, NY, RI, VA and their respective agencies and certificate numbers.

'X' indicates that the analyte is accredited.

If your state is not listed above, call laboratory for accreditation/certification information.

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg | PPB = µg/kg and Water PPM = mg/L | PPB = µg/L. The test results reported relate only to the samples submitted.

CERTIFICATE OF ANALYSIS

Client: Stohl Environmental
4169 Allendale Pkwy; Suite 100
Blasdell NY 14219

Report Date: 2/14/2017
Report No.: 529289 - Lead Water
Project: Harry F. Abate Elementary School
Project No.: 2016L-111.4

Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6144917
Client No.: 111.4-13-D

Location: Cafeteria-S


Result(ppb): 107


Lab No.: 6144918
Client No.: 111.4-13-F

Location: Cafeteria-S

Result(ppb): 4.00

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 2/7/2017
Date Analyzed: 02/14/2017
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Stohl Environmental
4169 Allendale Pkwy; Suite 100
Blasdell NY 14219

Report Date: 2/14/2017
Report No.: 529289 - Lead Water
Project: Harry F. Abate Elementary School
Project No.: 2016L-111.4

Client: STO708

Appendix to Analytical Report:

Customer Contact: Lab Results Final
Analysis: AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Shirley Clark
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:
- ASTM D3559-08D, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B:7421 - Pb(AAS-GF, RL <2 ppb/sample)

Certification:
- NYS-DOH No. 11021
- NJDEP No. 03863

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 2.0 PPB

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.



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1.5 Laboratory Certifications

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued September 22, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:*

Metals I

Lead, Total

EPA 200.9 Rev. 2.2



Serial No.: 55043

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:*

Metals I

Lead, Total
EPA 200.7 Rev. 4.4
EPA 6010C
EPA 7000B
EPA 200.9 Rev. 2.2

Sample Preparation Methods

EPA 3010A
EPA 3005A
EPA 3020A



Department
of Health

Serial No.: 54667

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

*is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:*

Characteristic Testing

TCLP EPA 1311

Polychlorinated Biphenyls

PCB-1268 EPA 8082A

Metals I

Sample Preparation Methods

Barium, Total EPA 6010C

EPA 3010A

Cadmium, Total EPA 6010C

EPA 3050B

Chromium, Total EPA 6010C

EPA 3550C

Lead, Total EPA 6010C

EPA 3031

EPA 7000B

Nickel, Total EPA 6010C

Silver, Total EPA 6010C

Metals II

Antimony, Total EPA 6010C

Arsenic, Total EPA 6010C

Chromium VI EPA 7196A

Mercury, Total EPA 7471B

Selenium, Total EPA 6010C

Polychlorinated Biphenyls

PCB-1016 EPA 8082A

PCB-1221 EPA 8082A

PCB-1232 EPA 8082A

PCB-1242 EPA 8082A

PCB-1248 EPA 8082A

PCB-1254 EPA 8082A

PCB-1260 EPA 8082A

PCB-1262 EPA 8082A

NEW
YORK
STATE

Department
of Health

Serial No.: 54668

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WADSWORTH CENTER



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MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

EPA 3050B



Serial No.: 54669

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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Issued April 01, 2016

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MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:*

Metals I

Lead, Total NIOSH 7082
40 CFR PART 50 1984 APP G

Miscellaneous

Fibers NIOSH 7400 A RULES



Serial No.: 54670

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

LAB ID: 11021

April 01, 2016

MR. FRANK E. EHRENFELD III
INTERNATIONAL ASBESTOS TESTING LABS
9000 COMMERCE PARKWAY
SUITE B
MT LAUREL, NJ 08054

Certificate Expiration Date:
April 01, 2017

Dear Mr. Ehrenfeld Iii,

Enclosed are certificate(s) of approval issued to your environmental laboratory for the current permit year. The certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the fields of accreditation (category - method - analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact ELAP at the New York State Department of Health (NYS DOH), Wadsworth Center, PO Box 509, Albany NY, 12201-0509; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.ny.gov.

Sincerely,

Michael P. Ryan, M.T. (ASCP), Ph.D.
Director, Division of Laboratory Quality Certification
Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. FRANK E. EHRENFELD III
INTERNATIONAL ASBESTOS TESTING LABS
9000 COMMERCE PARKWAY SUITE B
MOUNT LAUREL, NJ 08054

NY Lab Id No: 11021

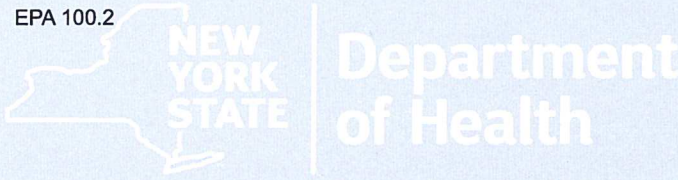
is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved subcategories and/or analytes are listed below:

Metals I

Lead, Total ASTM D3559-90, 96, 03 & 08 (D)

Miscellaneous

Asbestos EPA 100.1
 EPA 100.2



Serial No.: 54134

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2017
Issued April 01, 2016

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. FRANK E. EHRENFELD III
INTERNATIONAL ASBESTOS TESTING LABS
9000 COMMERCE PARKWAY SUITE B
MOUNT LAUREL, NJ 08054

NY Lab Id No: 11021

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:*

Characteristic Testing

TCLP EPA 1311

Metals I

Lead, Total EPA 7000B

Miscellaneous

Asbestos in Friable Material Item 198.1 of Manual
EPA 600/M4/82/020

Asbestos in Non-Friable Material-PLM Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM Item 198.4 of Manual

Lead in Dust Wipes EPA 7000B

Lead in Paint EPA 7000B

Sample Preparation Methods

EPA 3050B

Serial No.: 54135

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. FRANK E. EHRENFELD III
INTERNATIONAL ASBESTOS TESTING LABS
9000 COMMERCE PARKWAY SUITE B
MOUNT LAUREL, NJ 08054

NY Lab Id No: 11021

*is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:*

Metals I

Lead, Total NIOSH 7082

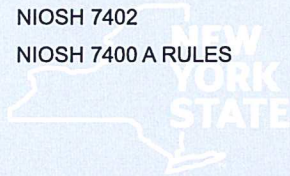
Miscellaneous

Asbestos 40 CFR 763 APXA No. III

NIOSH 7402

Fibers

NIOSH 7400 A RULES



Department
of Health

Serial No.: 54136

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ENVIRONMENTAL CONSULTANTS

4169 Allendale Parkway
Buffalo, New York 14219
(P) 716-312-0070 (F) 716-312-8092
www.stohlenvironmental.com

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1.6 Chains of Custody



Chain of Custody Document

ENVIRONMENTAL CONSULTANTS - A MEMBER OF THE STOHL GROUP OF COMPANIES
 4169 ALLENDALE PKWY. BUFFALO, NEW YORK 14219
 (716) 312-0070 (716) 312-8092
 www.stohlenvironmental.com

Submitted to: (Lab Name) Schneider

STOHL Job # 2016L-111.4

Client: Niagara Falls CSD

Contact: Dave Spacone

Building: Harry F. Abate Elementary

Location: 1625 Lockport St, Niagara Falls, NY

LEAD

Water by AAS-GF: ASTM D3559-03D, US EPA 200.9 X

Turnaround
5 Days

Sample #	Location	Sample Type	Time	Cooler Model	Lab ID	Results
111.4-159	Room 158 Sink	Initial	6:42	0	194835 S 34 V:\194\194835 sdaniel 12/8/2016 1:35:00 PM Federal Express	
111.4-160	Room 158 Sink	Flush	6:43	0		
111.4-161	Room 157 Sink	Initial	6:47	0		
111.4-162	Room 157 Sink	Flush	6:48	0		
111.4-163	Room 157 Bubbler	Initial	6:47	0		
111.4-164	Room 157 Bubbler	Flush	6:48	0		
111.4-165	Room 163 Bubbler	Initial	6:54	0		
111.4-166	Room 163 Bubbler	Flush	6:55	0		
111.4-167	Room 175/176 Sink	Initial	7:10	0		
111.4-168	Room 175/176 Sink	Flush	7:11	0		
111.4-169	Room 124 Sink	Initial	7:16	0		
111.4-170	Room 124 Sink	Flush	7:17	0		
111.4-171	Room 122 Sink	Initial	7:18	0		
111.4-172	Room 122 Sink	Flush	7:19	0		
111.4-173	Room 105 Sink	Initial	7:23	0		
111.4-174	Room 105 Sink	Flush	7:24	0		
111.4-175	Room 202 Far Bath Sink	Initial	7:26	0		
111.4-176	Room 202 Far Bath Sink	Flush	7:27	0		

Notes: Please e-mail lab results to labs@stohlenv.com If checked, also e-mail results to: _____

Sampled By: Sean Fitzgerald Print Name Stohl Env: Sean Fitzgerald Date: 11/30/2016
 Relinquished By: [Signature] Print Name Stohl Env: Eric Henderson Jr. Date: 12/6/2016
 Received (Name / Lab): _____ Date: _____ Time: _____
 Sample Login (Name / Lab): _____ Date: _____ Time: _____
 Analysis (Name / Lab): _____ Date: _____ Time: _____
 QA/QC Review (Name / Lab): _____ Date: _____ Time: _____
 Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____



Chain of Custody Document

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4169 ALLENDALE PKWY. BUFFALO, NEW YORK 14219
☎ (716) 312-0070 ■ (716) 312-8892
www.stohlenvironmental.com

Submitted to: (Lab Name) Schneider

STOHL Job # 2016L-111.4

Client: Niagara Falls CSD

Contact: Dave Spacone

Building: Harry F. Abate Elementary

Location: 1625 Lockport St, Niagara Falls NY

LEAD

Water by AAS-GF: ASTM D3559-03D, US EPA 200.9 X

Turnaround

5 Days

Sample #	Location	Sample Type	Time	Cooler Model	Lab ID	Results
111.4-177	Room 202 Bath Near Sink	Initial	7:28	0		
111.4-178	Room 202 Bath Near Sink	Flush	7:29	0		
111.4-179	Room 248 Sink	Initial	7:36	0		
111.4-180	Room 248 Sink	Flush	7:37	0		
111.4-181	HB E Courtyard HB	Initial	7:49	0		
111.4-182	HB E Courtyard HB	Flush	7:50	0		
111.4-183	HB S Wall HB	Initial	7:53	0		
111.4-184	HB S Wall HB	Flush	7:54	0		
111.4-185	HB Door 1 E	Initial	7:55	0		
111.4-186	HB Door 1 E	Flush	7:56	0		
111.4-187	HB Door 1 W	Initial	7:58	0		
111.4-188	HB Door 1 W	Flush	7:59	0		
111.4-189	HB NW Wall	Initial	8:01	0		
111.4-190	HB NW Wall	Flush	8:02	0		
111.4-191	HB S Wall HB	Initial	8:04	0		
111.4-192	HB S Wall HB	Flush	8:05	0		

Notes:

Please e-mail lab results to labs@stohlenv.com

Sampled By: Sean Fitzgerald Print Name Stohl Env: Sean Fitzgerald Date: 11/30/2016

Relinquished By: *E. Henderson Jr.* Print Name Stohl Env: Eric Henderson Jr. Date: 12/6/2016

Received (Name / Lab): _____ Date: _____ Time: _____

Sample Login (Name / Lab): _____ Date: _____ Time: _____

Analysis (Name / Lab): _____ Date: _____ Time: _____

QA/QC Review (Name / Lab): _____ Date: _____ Time: _____

Archived / Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

