

February 24, 2017

Mr. Michael Tambroni  
North Tonawanda City School District  
Director of Facilities  
176 Walck Road  
North Tonawanda, New York 14120

**re: Investigation and Sampling of Drinking Water for Lead Concentrations**

Dear Mr. Tambroni:

Included with this letter is Stohl Environmental LLC's report for the Water Sampling performed at the educational buildings of the North Tonawanda City School District, including:

- Transportation Building, 100 Ridge Road, North Tonawanda, New York

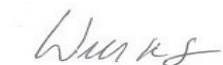
This report is prepared to assist the District in complying with the requirements of NYS regulations, *SUBPART 67-4: Lead Testing in School Drinking Water*, by identifying the sources of potable water with lead concentrations greater than the NYS "Action Level of 15 parts per billion (ppb)".

The Investigation and Sampling was performed on October 18 and October 20, 2016. The Protocol for the Investigation followed the requirements of NYS regulations as well as USEPA Technical Guidance Document "3-T's for Reducing Lead in Drinking Water in Schools".

As detailed in Section 1.2 (*Executive Summary*) of the accompanying report, based upon the sampling and analysis performed, one source of potable water at the Transportation Building has been identified as having lead concentrations in water above the NYS Action Level of 15 parts per billion. To comply with NYS regulations, Response actions as identified in this report by the District are required.

Thank you for the opportunity to be of service to North Tonawanda City School District.

Sincerely,  
Stohl Environmental, LLC.



William K. Sisco  
Senior Project Manager

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

**Prepared for:**

**Mr. Michael Tambroni  
North Tonawanda City School District  
Director of Facilities  
176 Walck Road  
North Tonawanda, New York 14120**

**Prepared by:**



**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](http://www.stohlenvironmental.com)**

**Conditions as of October 28, 2016**

## 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

## 1.1 Sampling Protocol and Summary of Results:

Stohl Environmental was retained by North Tonawanda City School District to perform sampling and analysis of potable water for elevated lead concentrations. Sampling was performed in the following buildings:

- Transportation Building, 100 Ridge Road, North Tonawanda, New York

### Scope of Work:

Stohl Environmental was charged with collecting first-draw water samples from all outlets in the Transportation Building. 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:

- **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.
- **Service Connection Sampling:** Samples were collected at the service connection as follows:
  - **Service Connection Sample:** As detailed in EPA guidance documents, this sample is not a first-draw sample. The cold water tap closest to the service connection was opened, and the sample was collected immediately after a change in water temperature was detected, or after 30 seconds.
  - **Water Main Sample:** This sample was collected at the same location as the Service Connection sample; however, it was collected after water was allowed to run an additional 3 minutes after the temperature change, but not more than 3 minutes and 30 seconds.
- **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).

A MEMBER OF THE STOHL GROUP OF COMPANIES

## 1.2 Executive Summary of Sampling and Analysis:

### Total Number of Samples Collected by Building Classified by First Draw & Confirmatory Samples:

Building Name	Date of Sample Event	Total Number Samples Collected	First Draw Samples		Confirmatory Samples **	
			Number of Samples Below Action level of 15 ppb	Number of Samples Above Action Level of 15 ppb	Number of Samples Below Action level of 15 ppb	Number of Samples Above Action Level of 15 ppb
Transportation Building	10/28/16	13	12	1	0	0

\*\* Confirmatory 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.

### Listing of Outlets Requiring Remediation

Locations of Outlets Analyzed above the NYS Action Level of 15 parts per billion based upon Analysis of First Draw Samples and Confirmatory Samples				
Sample #	Sample Type	Classroom or other Location	Fixture/Outlet type	Laboratory Analysis in ppb
448.9-8	First Draw	Men's Room Near Main Entrance	Sink	17.9

### **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 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 10 business days after the school received the laboratory report.



ENVIRONMENTAL CONSULTANTS

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

---

A MEMBER OF THE STOHL GROUP OF COMPANIES

#### 1.4 Laboratory Analytical Reports by Building



## 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 #:** 190671

**Matrix** Drinking Water  
**Received** 11/02/16  
**Reported** 02/23/17

**Attn:**

**Project:** North Tonawanda Bus Garage  
**Location:** 100 Ridge Rd, North Tonawanda  
**Number:** 2106L-448.9

**PO Number:**

Sample ID	Cust. Sample ID	Location	Result	RL*	Units	Analysis Date	Analyst
Parameter		Method					
190671-001	448.9-1 WMF	Near Stairs To 2nd Floor					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	5.39	5.00	µg/L	02/21/17	SA
190671-002	448.9-2 WMTC	Near Stairs To 2nd Floor					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-003	448.9-3	Hallway Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-004	448.9-4	Womens Lav Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	13.1	5.00	µg/L	02/21/17	SA
190671-005	448.9-5	Womens Lav Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-006	448.9-6	Womens Lav Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-007	448.9-7	Janitors Closet Near Main					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-008	448.9-8	Mens Rm Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	17.9	5.00	µg/L	02/21/17	SA
190671-009	448.9-9	Mens Lav Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	5.69	5.00	µg/L	02/21/17	SA
190671-010	448.9-10	Mens Lav Near Main Entr					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA
190671-011	448.9-11	Plumbing Shop					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	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 #:** 190671

**Matrix** Drinking Water  
**Received** 11/02/16  
**Reported** 02/23/17

**Attn:**

**Project:** North Tonawanda Bus Garage  
**Location:** 100 Ridge Rd, North Tonawanda  
**Number:** 2106L-448.9

**PO Number:**

Sample ID	Cust. Sample ID	Location	Result	RL*	Units	Analysis Date	Analyst
Parameter		Method					
190671-012	448.9-12	Carpenter Shop					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	8.99	5.00	µg/L	02/21/17	SA
190671-013	448.9-13	Grounds Dept					
<b>Metals Analysis</b>							
Lead		EPA 200.9 Rev 2.2	<5.00	5.00	µg/L	02/21/17	SA

190671-02/23/17 03:35 PM

*Abisola O Kasali*

Reviewed By: **Abisola Kasali**  
Metals Supervisor

### EPA Regulatory Limits

Parameter	Reg. Limit	Unit
Lead	15.0	µg/L

### Certifications

Parameter	Method	Matrix	CA	CT	FL	ND	NJ	NY	RI	VA
Lead	EPA 200.9 Rev 2.2	Drinking Water	X	X	X	X	X	X	X	X

### Key

State	Regulatory Agency - Lab ID	Certificate Number
CA	CA ELAP	2078
CT	CT DPH	PH-0118
FL	FL ELAP	E87828
ND	North Dakota	R-221
NJ	NJDEP	NLC160001
NY	NYELAP-11413	55043
RI	RIDOH	LAO00084
VA	Virginia DCLS/DEQ - 460135	8615

'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.



ENVIRONMENTAL CONSULTANTS

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

---

A MEMBER OF THE STOHL GROUP OF COMPANIES

## 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**

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 SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Characteristic Testing**

TCLP EPA 1311

**Metals I**

Barium, Total EPA 6010C  
Cadmium, Total EPA 6010C  
Chromium, Total EPA 6010C  
Lead, Total EPA 6010C  
Nickel, Total EPA 7000B  
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

**Polychlorinated Biphenyls**

PCB-1268 EPA 8082A

**Sample Preparation Methods**

EPA 3010A  
EPA 3050B  
EPA 3550C  
EPA 3031



Department  
of Health

Serial No.: 54668

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 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**

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 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.



ENVIRONMENTAL CONSULTANTS

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

---

A MEMBER OF THE STOHL GROUP OF COMPANIES

## 1.6 Chains of Custody



