

December 2, 2016

Mr. Mark Rampado
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. Rampado:

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:

- Spruce Elementary School, 195 Spruce Street, 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 1, 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, 39 sources of potable water in Spruce Elementary School have 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. Mark Rampado
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

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Conditions as of October 1, 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:

- Spruce Elementary School, 195 Spruce Street, North Tonawanda, New York

Scope of Work:

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

- **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:
 - o **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.
 - o **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).

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
Spruce Elementary School	10/1/2016	112	73	39	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
448.4-4	First Draw	Girls' Locker Room Office	Sink	20.8
448.4-11	First Draw	Boys' Locker Room	Bubbler	31.5
448.4-13	First Draw	Kitchen Sink with Spray Hose, Yellow Tint	Sink	71.0
448.4-15	First Draw	Kitchen Soup Sink Near Stove	Sink	18.1
448.4-21	First Draw	Principal's Office	Sink	25.6
448.4-22	First Draw	Main Office	Sink	26.6
448.4-24	First Draw	Nurse's Office	Sink	38.6
448.4-34	First Draw	Room 113 Bathroom	Sink	22.6
448.4-45	First Draw	Room 109 Large Sink	Sink	16.3
448.4-48	First Draw	Room 137	Sink	26.2
448.4-49	First Draw	Room 107 Large Sink	Sink	23.6
448.4-55	First Draw	Room 105 Large Sink	Sink	15.9
448.4-59	First Draw	Room 106	Bubbler	226
448.4-61	First Draw	Room 103 Large Sink	Sink	16.0
448.4-62	First Draw	Room 103	Bubbler	24.8
448.4-68	First Draw	Room 101	Bubbler	17.2
448.4-70	First Draw	Room 102 Bathroom	Sink	21.8
448.4-72	First Draw	Room 209	Sink	17.0
448.4-76	First Draw	Room 212	Sink	65.5
448.4-77	First Draw	Room 212	Bubbler	54.8
448.4-78	First Draw	Room 215	Sink	58.4
448.4-79	First Draw	Room 210	Sink	29.7
448.4-85	First Draw	Boys' Bathroom 2 nd Floor Left Sink	Sink	18.8
448.4-88	First Draw	Janitor's Closet	Sink	28.4
448.4-89	First Draw	Room 207	Sink	18.3
448.4-90	First Draw	Room 208	Sink	16.6
448.4-92	First Draw	Room 205	Sink	21.8
448.4-94	First Draw	Room 206	Sink	23.8
448.4-98	First Draw	Room 204	Sink	19.2
448.4-100	First Draw	Room 201	Sink	26.0
448.4-102	First Draw	Room 202	Sink	28.4
448.4-104	First Draw	Hose Bib Outside Room 104	Hose Bib	88.7
448.4-105	First Draw	Hose Bib Outside Room 103	Hose Bib	40.8
448.4-106	First Draw	Hose Bib Outside Room 109	Hose Bib	86.0

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Locations of Outlets Analyzed above the NYS Action Level of 15 parts per billion based upon Analysis of First Draw Samples and Confirmatory Samples (continued)				
Sample #	Sample Type	Classroom or other Location	Fixture/Outlet type	Laboratory Analysis in ppb
448.4-107	First Draw	Hose Bib Outside Room 111	Hose Bib	370
448.4-108	First Draw	Hose Bib Outside Room 144	Hose Bib	126
448.4-109	First Draw	Hose Bib Outside Room 149	Hose Bib	130
448.4-110	First Draw	Hose Bib Outside Gym	Hose Bib	113
448.4-111	First Draw	Basement Hose Bib	Hose Bib	124

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.



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1.4 Laboratory Analytical Reports by Building

CERTIFICATE OF ANALYSIS

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

Report Date: 11/30/2016
Report No.: 521311 - Lead Water
Project: North Tonawanda CSD - Spruce Elementary School
10/1/16
Project No.: 2016L-448.4

Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050547 **Location:**Boiler-HB **Result(ppb):**5.10
Client No.:448.4-1 WMF

Lab No.:6050548 **Location:**Boiler-HB **Result(ppb):**<2.00
Client No.:448.4-2 WMTC

Lab No.:6050549 **Location:**Restroom-S **Result(ppb):**<2.00
Client No.:448.4-3

Lab No.:6050550 **Location:**Girl's Locker Room Office-S **Result(ppb):**20.8
Client No.:448.4-4

Lab No.:6050551 **Location:**Girl's Locker Room-S **Result(ppb):**14.3
Client No.:448.4-5

Lab No.:6050552 **Location:**Hall Near Stage-S **Result(ppb):**<2.00
Client No.:448.4-6

Lab No.:6050553 **Location:**Hall Near Stage-S **Result(ppb):**<2.00
Client No.:448.4-7

Lab No.:6050554 **Location:**Men's Bathroom-S **Result(ppb):**6.60
Client No.:448.4-8

Lab No.:6050555 **Location:**Men's Bathroom-S **Result(ppb):**3.60
Client No.:448.4-9

Lab No.:6050556 **Location:**Boy's Locker Room Office-S **Result(ppb):**10.4
Client No.:448.4-10

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

Date Received: 10/6/2016
Date Analyzed: 11/30/2016
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: 11/30/2016
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10/1/16
Project No.: 2016L-448.4

Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050557 **Location:**Boy's Locker Room-B **Result(ppb):**31.5
Client No.:448.4-11

Lab No.:6050558 **Location:**Boy's Locker Room-S **Result(ppb):**14.5
Client No.:448.4-12

Lab No.:6050559 **Location:**Kitchen-S **Result(ppb):**71.0
Client No.:448.4-13

Lab No.:6050560 **Location:**Kitchen-S **Result(ppb):**7.00
Client No.:448.4-14

Lab No.:6050561 **Location:**Kitchen-S **Result(ppb):**18.1
Client No.:448.4-15

Lab No.:6050562 **Location:**Kitchen-S **Result(ppb):**5.50
Client No.:448.4-16

Lab No.:6050563 **Location:**Women's Bathroom-S **Result(ppb):**3.80
Client No.:448.4-17

Lab No.:6050564 **Location:**Women's Bathroom-S **Result(ppb):**5.20
Client No.:448.4-18

Lab No.:6050565 **Location:**Building Engineer-S **Result(ppb):**7.80
Client No.:448.4-19

Lab No.:6050566 **Location:**Women's Bathroom-S **Result(ppb):**13.3
Client No.:448.4-20

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

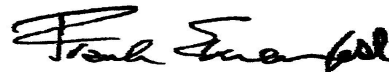
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050567 **Location:**Principal Office-S **Result(ppb):**25.6
Client No.:448.4-21

Lab No.:6050568 **Location:**Main Office-S **Result(ppb):**26.6
Client No.:448.4-22

Lab No.:6050569 **Location:**Main Office Bathroom-S **Result(ppb):**10.1
Client No.:448.4-23

Lab No.:6050570 **Location:**Nurse Office-S **Result(ppb):**38.6
Client No.:448.4-24

Lab No.:6050571 **Location:**Hall Outside Nurse Office-S **Result(ppb):**<2.00
Client No.:448.4-25

Lab No.:6050572 **Location:**Hall Outside Nurse Office-S **Result(ppb):**<2.00
Client No.:448.4-26

Lab No.:6050573 **Location:**Custodial Closet-S **Result(ppb):**10.0
Client No.:448.4-27

Lab No.:6050574 **Location:**Faculty Room-S **Result(ppb):**11.5
Client No.:448.4-28

Lab No.:6050575 **Location:**Faculty Room Bathroom-S **Result(ppb):**<2.00
Client No.:448.4-29

Lab No.:6050576 **Location:**111-S **Result(ppb):**10.3
Client No.:448.4-30

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

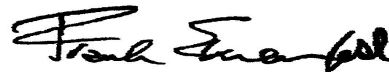
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050577 **Location:**111-B **Result(ppb):**4.90
Client No.:448.4-31

Lab No.:6050578 **Location:**113-S **Result(ppb):**6.50
Client No.:448.4-32

Lab No.:6050579 **Location:**113-B **Result(ppb):**7.10
Client No.:448.4-33

Lab No.:6050580 **Location:**113 Bathroom-S **Result(ppb):**22.6
Client No.:448.4-34

Lab No.:6050581 **Location:**115-S **Result(ppb):**<2.00
Client No.:448.4-35

Lab No.:6050582 **Location:**115-B **Result(ppb):**<2.00
Client No.:448.4-36

Lab No.:6050583 **Location:**114-S **Result(ppb):**<2.00
Client No.:448.4-37

Lab No.:6050584 **Location:**114-B **Result(ppb):**<2.00
Client No.:448.4-38

Lab No.:6050585 **Location:**114 Bathroom-S **Result(ppb):**2.00
Client No.:448.4-39

Lab No.:6050586 **Location:**117-S **Result(ppb):**<2.00
Client No.:448.4-40

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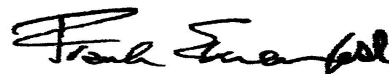
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050587 **Location:**117-B **Result(ppb):**<2.00
Client No.:448.4-41

Lab No.:6050588 **Location:**116-S **Result(ppb):**<2.00
Client No.:448.4-42

Lab No.:6050589 **Location:**116-B **Result(ppb):**<2.00
Client No.:448.4-43

Lab No.:6050590 **Location:**116 Bathroom-S **Result(ppb):**<2.00
Client No.:448.4-44

Lab No.:6050591 **Location:**109-S **Result(ppb):**16.3
Client No.:448.4-45

Lab No.:6050592 **Location:**109-B **Result(ppb):**7.80
Client No.:448.4-46

Lab No.:6050593 **Location:**109-S **Result(ppb):**3.70
Client No.:448.4-47

Lab No.:6050594 **Location:**137-S **Result(ppb):**26.2
Client No.:448.4-48

Lab No.:6050595 **Location:**107-S **Result(ppb):**23.6
Client No.:448.4-49

Lab No.:6050596 **Location:**107-B **Result(ppb):**12.7
Client No.:448.4-50

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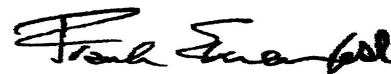
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050597 **Location:**107-S **Result(ppb):**5.00
Client No.:448.4-51

Lab No.:6050598 **Location:**108-S **Result(ppb):**10.6
Client No.:448.4-52

Lab No.:6050599 **Location:**108-B **Result(ppb):**14.0
Client No.:448.4-53

Lab No.:6050600 **Location:**108-S **Result(ppb):**2.80
Client No.:448.4-54

Lab No.:6050601 **Location:**105-S **Result(ppb):**15.9
Client No.:448.4-55

Lab No.:6050602 **Location:**105-B **Result(ppb):**10.8
Client No.:448.4-56

Lab No.:6050603 **Location:**105-S **Result(ppb):**10.3
Client No.:448.4-57

Lab No.:6050604 **Location:**106-S **Result(ppb):**5.70
Client No.:448.4-58

Lab No.:6050605 **Location:**106-B **Result(ppb):**266
Client No.:448.4-59

Lab No.:6050606 **Location:**106-S **Result(ppb):**9.80
Client No.:448.4-60

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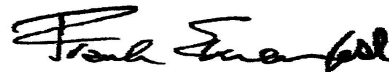
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050607 **Location:**103-S **Result(ppb):**16.0
Client No.:448.4-61

Lab No.:6050608 **Location:**103-B **Result(ppb):**24.8
Client No.:448.4-62

Lab No.:6050609 **Location:**103-S **Result(ppb):**14.2
Client No.:448.4-63

Lab No.:6050610 **Location:**104-S **Result(ppb):**12.5
Client No.:448.4-64

Lab No.:6050611 **Location:**104-B **Result(ppb):**14.7
Client No.:448.4-65

Lab No.:6050612 **Location:**104-S **Result(ppb):**6.00
Client No.:448.4-66

Lab No.:6050613 **Location:**101-S **Result(ppb):**10.6
Client No.:448.4-67

Lab No.:6050614 **Location:**101-B **Result(ppb):**17.2
Client No.:448.4-68

Lab No.:6050615 **Location:**101-S **Result(ppb):**13.6
Client No.:448.4-69

Lab No.:6050616 **Location:**102 Bathroom-S **Result(ppb):**21.8
Client No.:448.4-70

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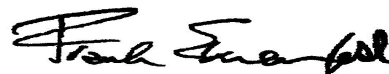
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050617 **Location:**102-S **Result(ppb):**9.50
Client No.:448.4-71

Lab No.:6050618 **Location:**209-S **Result(ppb):**17.0
Client No.:448.4-72

Lab No.:6050619 **Location:**209-B **Result(ppb):**11.2
Client No.:448.4-73

Lab No.:6050620 **Location:**Hall Near Stock Room-DF **Result(ppb):**5.50
Client No.:448.4-74

Lab No.:6050621 **Location:**Hall Near Stock Room-DF **Result(ppb):**6.10
Client No.:448.4-75

Lab No.:6050622 **Location:**212-S **Result(ppb):**65.5
Client No.:448.4-76

Lab No.:6050623 **Location:**212-B **Result(ppb):**54.8
Client No.:448.4-77

Lab No.:6050624 **Location:**215-S **Result(ppb):**58.4
Client No.:448.4-78

Lab No.:6050625 **Location:**210-S **Result(ppb):**29.7
Client No.:448.4-79

Lab No.:6050626 **Location:**Faculty Men's Bathroom-S **Result(ppb):**<2.00
Client No.:448.4-80

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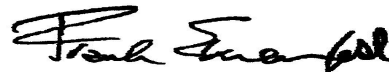
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050627 **Location:**Faculty Women's Bathroom-S **Result(ppb):**6.70
Client No.:448.4-81

Lab No.:6050628 **Location:**Girl's Bathroom-S **Result(ppb):**6.50
Client No.:448.4-82

Lab No.:6050629 **Location:**Girl's Bathroom-S **Result(ppb):**7.70
Client No.:448.4-83

Lab No.:6050630 **Location:**Girl's Bathroom-S **Result(ppb):**11.8
Client No.:448.4-84

Lab No.:6050631 **Location:**Boy's Bathroom-S **Result(ppb):**18.8
Client No.:448.4-85

Lab No.:6050632 **Location:**Boy's Bathroom-S **Result(ppb):**12.0
Client No.:448.4-86

Lab No.:6050633 **Location:**Boy's Bathroom-S **Result(ppb):**7.10
Client No.:448.4-87

Lab No.:6050634 **Location:**Janitor Closet-S **Result(ppb):**28.4
Client No.:448.4-88

Lab No.:6050635 **Location:**207-S **Result(ppb):**18.3
Client No.:448.4-89

Lab No.:6050636 **Location:**208-S **Result(ppb):**16.6
Client No.:448.4-90

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

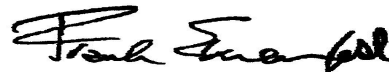
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Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050637 **Location:**208-B **Result(ppb):**4.10
Client No.:448.4-91

Lab No.:6050638 **Location:**205-S **Result(ppb):**21.8
Client No.:448.4-92

Lab No.:6050639 **Location:**205-B **Result(ppb):**12.2
Client No.:448.4-93

Lab No.:6050640 **Location:**206-S **Result(ppb):**23.8
Client No.:448.4-94

Lab No.:6050641 **Location:**206-B **Result(ppb):**14.6
Client No.:448.4-95

Lab No.:6050642 **Location:**203-S **Result(ppb):**11.1
Client No.:448.4-96

Lab No.:6050643 **Location:**203-B **Result(ppb):**12.0
Client No.:448.4-97

Lab No.:6050644 **Location:**204-S **Result(ppb):**19.2
Client No.:448.4-98

Lab No.:6050645 **Location:**204-B **Result(ppb):**9.90
Client No.:448.4-99

Lab No.:6050646 **Location:**201-S **Result(ppb):**26.0
Client No.:448.4-100

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

Date Received: 10/6/2016
Date Analyzed: 11/30/2016
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: 11/30/2016
Report No.: 521311 - Lead Water
Project: North Tonawanda CSD - Spruce Elementary School
10/1/16
Project No.: 2016L-448.4

Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6050647 **Location:**201-B **Result(ppb):**12.0
Client No.:448.4-101

Lab No.:6050648 **Location:**202-S **Result(ppb):**28.4
Client No.:448.4-102

Lab No.:6050649 **Location:**202-B **Result(ppb):**14.0
Client No.:448.4-103

Lab No.:6050650 **Location:**Outside 104-HB **Result(ppb):**88.7
Client No.:448.4-104

Lab No.:6050651 **Location:**Outside 103-HB **Result(ppb):**40.8
Client No.:448.4-105

Lab No.:6050652 **Location:**Outside 109-HB **Result(ppb):**86.0
Client No.:448.4-106

Lab No.:6050653 **Location:**Outside 111-HB **Result(ppb):**370
Client No.:448.4-107

Lab No.:6050654 **Location:**Outside 144-HB **Result(ppb):**126
Client No.:448.4-108

Lab No.:6050655 **Location:**Outside 149-HB **Result(ppb):**130
Client No.:448.4-109

Lab No.:6050656 **Location:**Outside Gym-HB **Result(ppb):**113
Client No.:448.4-110

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

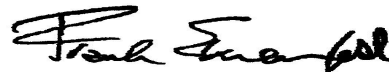
Date Received: 10/6/2016

Date Analyzed: 11/30/2016

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: 11/30/2016
Report No.: 521311 - Lead Water
Project: North Tonawanda CSD - Spruce Elementary School
10/1/16
Project No.: 2016L-448.4

Client: STO708

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6050657
Client No.: 448.4-111

Location: Basement-HB

Result(ppb): 124

Lab No.: 6050658
Client No.: 448.4-112

Location: Basement Bathroom-S

Result(ppb): 6.30

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

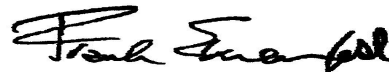
Date Received: 10/6/2016

Date Analyzed: 11/30/2016

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

Client: STO708

Report Date: 11/30/2016
Report No.: 521311 - Lead Water
Project: North Tonawanda CSD - Spruce Elementary
School 10/1/16
Project No.: 2016L-448.4

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.



ENVIRONMENTAL CONSULTANTS

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

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1.5 Laboratory Certifications



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

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

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

NY Lab Id No: 11021

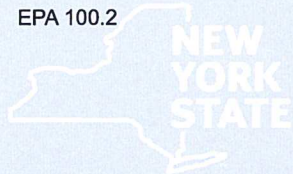
is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved subcategories and/or analytes are listed below:

Metals I

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

Miscellaneous

Asbestos EPA 100.1
 EPA 100.2



Department
of Health

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

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

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

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. 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

NEW
YORK
STATE

Department
of Health

Serial No.: 54136

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

A MEMBER OF THE STOHL GROUP OF COMPANIES

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) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD

Contact: Mark Rampado

Building: Spruce Elementary School

Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-1 WMF	Boiler	HB	12:55	NA	6050547	
448.4-2 WMTC	Boiler	HB	12:59	NA	6050548	
448.4-3	Restroom	S	8:07	NA	6050549	
448.4-4	Girls locker room Office	S	8:15	NA	6050550	
448.4-5	Girls Locker room	S	8:16	NA	6050551	
448.4-6	Hall near stage	S	8:19	A112108F	6050552	
448.4-7	Hall near stage	S	8:19	A112108F	6050553	
448.4-8	Men's bathroom	S	8:23	NA	6050554	
448.4-9	Men's bathroom	S	8:23	NA	6050555	
448.4-10	Boys locker room Office	S	8:27	NA	6050556	
448.4-11	Boys locker room	B	8:28	NA	6050557	
448.4-12	Boys locker room	S	8:28	NA	6050558	
448.4-13	Kitchen	S	8:35	NA	6050559	
448.4-14	Kitchen	S	8:36	NA	6050560	
448.4-15	Kitchen	S	8:36	NA	6050561	
448.4-16	Kitchen	S	8:37	NA	6050562	
448.4-17	Women's bathroom	S	8:46	NA	6050563	
448.4-18	Women's bathroom	S	8:46	NA	6050564	

Notes:

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

☐ If checked, also e-mail results to: _____

Sampled By: Tim Thrift Print Name

Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name

Stohl Env: Joseph Mecca Date: 10/3/2016

Received (Name / Lab): _____

Date: _____ Time: _____

Sample Login (Name / Lab): ML 100616

Date: _____ Time: _____

Analysis (Name / Lab): _____

Date: _____ Time: _____

QA/QC Review (Name / Lab): ML 11/30/16

Date: _____ Time: _____

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

Date: _____ Time: _____

RECEIVED
OCT 6 2016
IATL - BY [Signature]



Chain of Custody Document

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4169 ALLENDALE PKWY. BUFFALO, NEW YORK 14219
☎ (716) 312-0070 ■ (716) 312-8092
www.stohlenvironmental.com

Submitted to: (Lab Name) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD

Contact: Mark Rampado

Building: Spruce Elementary School

Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-19	Building engineer	S	8:52	NA	6050565	
448.4-20	Women's bathroom	S	8:54	NA	6050566	
448.4-21	Principal office	S	9:00	NA	6050567	
448.4-22	Main office	S	9:02	NA	6050568	
448.4-23	Main office bathroom	S	9:07	NA	6050569	
448.4-24	Nurse office	S	9:55	NA	6050570	
448.4-25	Hall outside nurse office	S	9:12	A112108F	6050571	
448.4-26	Hall outside nurse office	S	9:13	A112108F	6050572	
448.4-27	Custodial closet	S	9:17	NA	6050573	
448.4-28	Faculty Room	S	9:20	NA	6050574	
448.4-29	Faculty Room bathroom	S	9:20	NA	6050575	
448.4-30	111	S	9:25	NA	6050576	
448.4-31	111	B	9:25	NA	6050577	
448.4-32	113	S	9:30	NA	6050578	
448.4-33	113	B	9:30	NA	6050579	
448.4-34	113 bathroom	S	9:31	NA	6050580	
448.4-35	115	S	9:35	NA	6050581	
448.4-36	115	B	9:35	NA	6050582	

Notes:

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

Sampled By: Tim Thrift Print Name Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name Stohl Env: Joseph Mecca Date: 10/3/2016

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: _____



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4169 ALLENDALE PKWY. BUFFALO, NEW YORK 14219
☎ (716) 312-0070 ■ (716) 312-8092
www.stohlenvironmental.com

Submitted to: (Lab Name) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD Contact: Mark Rampado

Building: Spruce Elementary School Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-37	114	S	9:38	NA	6050583	
448.4-38	114	B	9:38	NA	6050584	
448.4-39	114 bathroom	S	9:39	NA	6050585	
448.4-40	117	S	9:43	NA	6050586	
448.4-41	117	B	9:43	NA	6050587	
448.4-42	116	S	9:47	NA	6050588	
448.4-43	116	B	9:47	NA	6050589	
448.4-44	116 bathroom	S	9:48	NA	6050590	
448.4-45	109	S	10:06	NA	6050591	
448.4-46	109	B	10:06	NA	6050592	
448.4-47	109	S	10:07	NA	6050593	
448.4-48	137	S	10:10	NA	6050594	
448.4-49	107	S	10:12	NA	6050595	
448.4-50	107	B	10:12	NA	6050596	
448.4-51	107	S	10:13	NA	6050597	
448.4-52	108	S	10:19	NA	6050598	
448.4-53	108	B	10:19	NA	6050599	
448.4-54	108	S	10:20	NA	6050600	

Notes:

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

Sampled By: Tim Thrift Print Name Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name Stohl Env: Joseph Mecca Date: 10/3/2016

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: _____



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www.stohlenvironmental.com

Submitted to: (Lab Name) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD

Contact: Mark Rampado

Building: Spruce Elementary School

Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-55	105	S	10:23	NA	6050601	
448.4-56	105	B	10:23	NA	6050602	
448.4-57	105	S	10:24	NA	6050603	
448.4-58	106	S	10:29	NA	6050604	
448.4-59	106	B	10:29	NA	6050605	
448.4-60	106	S	10:29	NA	6050606	
448.4-61	103	S	10:33	NA	6050607	
448.4-62	103	B	10:35	NA	6050608	
448.4-63	103	S	10:36	NA	6050609	
448.4-64	104	S	10:40	NA	6050610	
448.4-65	104	B	10:40	NA	6050611	
448.4-66	104	S	10:41	NA	6050612	
448.4-67	101	S	10:44	NA	6050613	
448.4-68	101	B	10:44	NA	6050614	
448.4-69	101	S	10:45	NA	6050615	
448.4-70	102 bathroom	S	10:49	NA	6050616	
448.4-71	102	S	10:50	NA	6050617	
448.4-72	209	S	11:00	NA	6050618	

Notes:

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

Sampled By: Tim Thrift Print Name Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name Stohl Env: Joseph Mecca Date: 10/3/2016

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

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) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD

Contact: Mark Rampado

Building: Spruce Elementary School

Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-73	209	B	11:00	NA	6050619	
448.4-74	Hall near stock room	DF	11:07	NA	6050620	
448.4-75	Hall near stock room	DF	11:07	NA	6050621	
448.4-76	212	S	11:15	NA	6050622	
448.4-77	212	B	11:15	NA	6050623	
448.4-78	215	S	11:16	NA	6050624	
448.4-79	210	S	11:20	NA	6050625	
448.4-80	Faculty men's bathroom	S	11:23	NA	6050626	
448.4-81	Faculty women's bathroom	S	11:24	NA	6050627	
448.4-82	Girls bathroom	S	11:27	NA	6050628	
448.4-83	Girls bathroom	S	11:27	NA	6050629	
448.4-84	Girls bathroom	S	11:28	NA	6050630	
448.4-85	Boys bathroom	S	11:31	NA	6050631	
448.4-86	Boys bathroom	S	11:31	NA	6050632	
448.4-87	Boys bathroom	S	11:31	NA	6050633	
448.4-88	Janitor closet	S	11:36	NA	6050634	
448.4-89	207	S	11:41	NA	6050635	
448.4-90	208	S	11:42	NA	6050636	

Notes:

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

Sampled By: Tim Thrift Print Name Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name Stohl Env: Joseph Mecca Date: 10/3/2016

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

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

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

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

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



Chain of Custody Document

ENVIRONMENTAL CONSULTANTS - A MEMBER OF THE STOHL GROUP OF COMPANIES
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(716) 312-0070 (716) 312-8092
www.stohlenvironmental.com

Submitted to: (Lab Name) IATL

STOHL Job # 2016L-448.4

Client: North Tonawanda CSD

Contact: Mark Rampado

Building: Spruce Elementary School

Location: 195 Spruce St, North Tonawanda, NY

LEAD

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

Turnaround

5 Days

Sample #	Location	Outlet Type	Time	Cooler Model	Lab ID	Results
448.4-91	208	B	11:46	NA	6050637	
448.4-92	205	S	11:49	NA	6050638	
448.4-93	205	B	11:49	NA	6050639	
448.4-94	206	S	11:53	NA	6050640	
448.4-95	206	B	11:54	NA	6050641	
448.4-96	203	S	11:57	NA	6050642	
448.4-97	203	B	11:58	NA	6050643	
448.4-98	204	S	12:00	NA	6050644	
448.4-99	204	B	12:01	NA	6050645	
448.4-100	201	S	12:04	NA	6050646	
448.4-101	201	B	12:04	NA	6050647	
448.4-102	202	S	12:06	NA	6050648	
448.4-103	202	B	12:06	NA	6050649	
448.4-104	Outside 104	HB	12:20	NA	6050650	
448.4-105	Outside 103	HB	12:25	NA	6050651	
448.4-106	Outside 109	HB	12:29	NA	6050652	
448.4-107	Outside 111	HB	12:34	NA	6050653	
448.4-108	Outside 144	HB	12:37	NA	6050654	

Notes:

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

Sampled By: Tim Thrift Print Name Stohl Env: Tim Thrift Date: 10/1/2016

Relinquished By: [Signature] Print Name Stohl Env: Joseph Mecca Date: 10/3/2016

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: _____

