A NOTICE TO PARENTS, GUARDIANS, and STAFF

Whitehall Central School District

Lead Testing of School Drinking Water

April 21, 2025

Safe and healthy school environments can foster healthy and successful children. To protect public health, the Public Health Law and New York State Health Department (NYS DOH) regulations require that all public schools and boards of cooperative educational services (BOCES) test lead levels in waterfrom every outlet that is being used, or could potentially be used, for drinking or cooking. If lead is found atany water outlet at levels above 5 parts per billion (ppb), which is equal to 5 micrograms per liter (µg/L), the NYS DOH requires that the school take action to reduce the exposure to lead.

What is "first draw" testing of school drinking water for lead?

The "on-again, off-again" nature of water use at most schools can raise lead levels in school drinking water. Water that remains in pipes overnight, over a weekend, or over vacation periods stays in contact with lead pipes or lead solder and, as a result, could contain higher levels of lead. This is why schoolsare required to collect a sample after the water has been sitting in the plumbing system for a certain period of time. This "first draw" sample is likely to show higher levels of lead for that outlet than what you would see if you sampled after using the water continuously. However, even if the first draw sample does not reflect what you would see with continuous usage, it is still important because it can identify outlets that have elevated lead levels.

What are the results of the first draw testing?

Please find the results on our District Website, www.railroaders.net.

What is being done in response to the results?

Outlets that tested with lead levels above the action level (5 ppb) were removed from service unlessan outlet is a sink faucet needed for handwashing. In that case, a sign was posted at the outlet indicating that the sink is not to be used for drinking. Outlets that tested below the action level remain in service with no restrictions.

What are the health effects of lead?

Lead is a metal that can harm children and adults when it gets into their bodies. Lead is a known neurotoxin, particularly harmful to the developing brain and nervous system of children under 6 years old. Lead can harm a young child's growth, behavior, and ability to learn. Lead exposure during pregnancy may contribute to low birth weight and developmental delays in infants. There are many sources of lead exposure in the environment, and it is important to reduce all lead exposure as much as possible. Water testing helps identify and correct possible sources of lead that contribute to exposure from drinking water.

What are the other sources of lead exposure?

Lead is a metal that has been used for centuries for many purposes, resulting in widespread distribution in the environment. Major sources of lead exposure include lead-based paint in older housing, and lead that built up over decades in soil and dust due to historical use of lead in gasoline, paint, and manufacturing. Lead can also be found in a number of consumer products, including certain types of pottery, pewter, brass fixtures, foods, plumbing materials, and cosmetics. Lead seldom occurs naturally in water supplies but drinking water could become a possible source of lead exposure if the building's plumbing contains lead. The primary source of lead exposure for most children with elevated blood-lead levels is lead-based paint.

Should your child be tested for lead?

The risk to an individual child from past exposure to elevated lead in drinking water depends on many factors, including but not limited to, a child's age, weight, amount of water consumed, and the amount of lead in the water. Children may also be exposed to other significant sources of lead including paint, soil, and dust. Since blood lead testing is the only way to determine a child's blood lead level, parents should discuss their child's health history with their child's physician to determine if blood lead testing is appropriate. Pregnant women or women of childbearing age should also consider discussing this matter with their physician.

Additional Resources

For more information regarding the testing program or sampling results, contact *[Shane Armstrong at (518) 499-0346]* , or go to our school website: *www.railroaders.net*

For information about lead in school drinking water, go to:

https://www.health.ny.gov/environmental/water/drinking/lead/lead_testing_of_school_drinking_water.htm

http://www.p12.nysed.gov/facplan/LeadTestinginSchoolDrinkingWater.html

For information about NYS DOH Lead Poisoning Prevention Program, go to:
http://www.health.ny.gov/environmental/lead/

For more information on blood lead testing and ways to reduce your child's risk of exposure to lead, see "What Your Child's Blood Lead Test Means":
http://www.health.ny.gov/publications/2526/ (English)

https://www.health.ny.gov/environmental/lead/education_materials/index.htm (available in ten languages)

Lead in Water Sample Log

School Name: Whitehall Central School District

Date Laste Updated: 4/21/2025

LabELAP ID: 10350

Method of Analysis: SM3113B

Lab Sample ID	School Sample ID	Collection Date	Sample Location	Outlet Description	Initial/Post Remediation	Lead Result (ppb)	Lab Report Date	Action Taken
BG03324	WES-1-KF-1	4/9/2025	Kitchen Steam Kettle	Kitchen Faucet	Initial	9.6	4/14/2025	Taken out of service until replacement of Steam Kettle Faucet.
BG03325	WES-1-IM-2	4/9/2025	Kitchen Ice Machine	Ice Machine	Initial	<1.0	4/14/2025	
BG03326	WES-1-KF-3	4/9/2025	Room 50 Faucet	Kitchen Faucet	Initial	452	4/14/2025	Signed with "DO NOT USE FOR DRINKING OR COOKING" (or similar)
BG03327	WES-1-WC-4	4/9/2025	Cafeteria A Bottle Fill	Water Cooler	Initial	<1.0	4/14/2025	
BG03328	WES-1-WC-5	4/9/2025	Bottle Fill Left of Room 63	Water Cooler	Initial	<1.0	4/14/2025	
BG03329	WES-1-KF-6	4/9/2025	Room 39 Faucet	Kitchen Faucet	Initial	4.9	4/14/2025	
BG03665	WES-1-KF-1-P	4/17/2025	Kitchen Steam Kettle	Kitchen Faucet	Post Remediation	3.6	4/18/2025	Outlet will be flushed for 30 seconds to 1 minute before use in adherence to the 3Ts best practices provided by the Environmental Protection Agency.
BG03666	WES-1-KF-1-P-F	4/17/2025	Kitchen Steam Kettle	Kitchen Faucet	Post Remediation Flush Sample	<1.0	4/18/2025	

Lead in Water Sample Log

School Name: Whitehall Central School District
LabELAP ID: 10350

Date Laste Updated: 4/14/2025
Method of Analysis: SM3113B

Lab Sample ID	School Sample ID	Collection Date	Sample Location	Outlet Description	Initial/Post Remediation	Lead Result (ppb)	Lab Report Date	Action Taken	Notes
BG03330	WHS-1-KF-1	4/9/2025	Kitchen Steam Kettle	Kitchen Faucet	Initial	1.5	4/14/2025		
BG03331	WHS-1-IM-2	4/9/2025	Cafeteria Ice Machine	Ice Machine	Initial	<1.0	4/14/2025		
BG03332	WHS-1-KF-3	4/9/2025	Room 113 Faucet (Main Office Break Room)	Kitchen Faucet	Initial	2.0	4/14/2025		
BG03333	WHS-1-KF-4	4/9/2025	Room 110 Faucet (Faculty Room)	Kitchen Faucet	Initial	<1.0	4/14/2025		
BG03334	WHS-1-WC-5	4/9/2025	Bottle Fill Left of Room 112A	Water Cooler	Initial	<1.0	4/14/2025		
BG03335	WHS-1-NS-6	4/9/2025	Library Office Faucet (Room 119)	Kitchen Sink	Initial	19.0	4/14/2025	Signed with "DO NOT USE FOR DRINKING OR COOKING" (or similar)	
BG03336	WHS-1-NS-7	4/9/2025	Nurse's Office Faucet	Nurse Sink	Initial	<1.0	4/14/2025		
BG03337	WHS-1-BF-8	4/9/2025	Nurse's Bathroom Faucet	Bathroom Faucet	Initial	<1.0	4/14/2025		
BG03338	WHS-1-WC-9	4/9/2025	Bottle Fill Right of Room 117	Water Cooler	Initial	<1.0	4/14/2025		
BG03339	WHS-1-KF-10	4/9/2025	Room 118 Faucet	Kitchen Faucet	Initial	24.6	4/14/2025	Signed with "DO NOT USE FOR DRINKING OR COOKING" (or similar)	
BG03340	WHS-1-WC-11	4/9/2025	Weight Room Bottle Fill	Water Cooler	Initial	<1.0	4/14/2025		
BG03341	WHS-1-WC-12	4/9/2025	Weight Room Bubbler	Water Cooler	Initial	<1.0	4/14/2025		
BG03342	WHS-1-KF-13	4/9/2025	Business Office, Office Sink	Kitchen Faucet	Initial	<1.0	4/14/2025		
BG03343	WHS-1-WC-14	4/9/2025	Mens Locker Room Right Bottle Fill	Water Cooler	Initial	<1.0	4/14/2025		
	WHS-1-WC-15	4/9/2025	Mens Locker Room Left Bottle Fill	Water Cooler	Initial				Out of Order, No Sample Taken
BG03344	WHS-1-WC-16	4/9/2025	Gym Bottle Fill (Right)	Water Cooler	Initial	<1.0	4/14/2025		
	WHS-1-WC-17	4/9/2025	Gym Bottle Fill (Left)	Water Cooler	Initial				Out of Order, No Sample Taken
BG03345	WHS-1-IM-18	4/9/2025	Gym Ice Machine	Ice Machine	Initial	<1.0	4/14/2025		

Capital Region Environmental Laboratory
137 Columbia Turnpike, Rensselaer, NY 12144
(518) 949-2020

Needham Risk Management Resource Grou

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03324**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-KF-1

Collect Date: 04/09/2025
Collect Time: 05:09
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	9.6	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards and/or National Primary/Secondary Drinking Water Standards.

Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:
Test procedures for all analyses meet NELAC requirements unless noted.

Brian Collins
Lead Technical Director Environmental Laboratory
and contact person
If you have questions, please call.
(518) 949-2020

Reviewed by Brian Collins
These results relate to samples as received.

New York State DOH E.L.A.P. # 10350 **MassDEP Cert. # M-NY934**

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Needham Risk Management Resource Grou

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03325**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-IM-2

Collect Date: 04/09/2025
Collect Time: 05:10
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

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Printed On 4/14/2025

Sample ID: **BG03326**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-KF-3

Collect Date: 04/09/2025
Collect Time: 05:43
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	452	15	X	ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit	R Duplication outside acceptance limits	H Hold time exceeded
T Temperature outside specifications	A Sample contained air bubble or headspace	B Analyte detected in blank
C(+/-) CCV outside acceptancee limits	Z Analysis is not state-certified	G Incorrect bottle received
S(+/-) Lab control sample outside acceptance limits	M(+/-)Matrix spike recovery outside acceptance limits	P Sample preserved at lab
J Analyte detected below quantitation limit	I(+/-) IS/Surrogate outside acceptance limits	
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Printed On 4/14/2025

Sample ID: **BG03327**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-WC-4

Collect Date: 04/09/2025
Collect Time: 05:44
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit	R Duplication outside acceptance limits	H Hold time exceeded
T Temperature outside specifications	A Sample contained air bubble or headspace	B Analyte detected in blank
C(+/-) CCV outside acceptancee limits	Z Analysis is not state-certified	G Incorrect bottle received
S(+/-) Lab control sample outside acceptance limits	M(+/-)Matrix spike recovery outside acceptance limits	P Sample preserved at lab
J Analyte detected below quantitation limit	I(+/-) IS/Surrogate outside acceptance limits	
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Printed On 4/14/2025

Sample ID: **BG03328**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-WC-5

Collect Date: 04/09/2025
Collect Time: 05:45
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit
T Temperature outside specifications
C(+/-) CCV outside acceptancee limits
S(+/-) Lab control sample outside acceptance limits
J Analyte detected below quantitation limit
(+ Result may be biased high / - Result may be biased low)
R Duplication outside acceptance limits
A Sample contained air bubble or headspace
Z Analysis is not state-certified
M(+/-) Matrix spike recovery outside acceptance limits
I(+/-) IS/Surrogate outside acceptance limits
H Hold time exceeded
B Analyte detected in blank
G Incorrect bottle received
P Sample preserved at lab

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Printed On 4/14/2025

Sample ID: **BG03329**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary School
Sample Pt: WES-1-KF-6

Collect Date: 04/09/2025
Collect Time: 05:46
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	4.9	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

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Printed On 4/14/2025

Sample ID: **BG03330**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-1

Collect Date: 04/09/2025
Collect Time: 05:02
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	1.5	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

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Printed On 4/14/2025

Sample ID: **BG03331**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-IM-2

Collect Date: 04/09/2025
Collect Time: 05:04
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

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Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:
Test procedures for all analyses meet NELAC requirements unless noted.

Brian Collins
Lead Technical Director Environmental Laboratory
and contact person
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(518) 949-2020

Reviewed by Brian Collins
These results relate to samples as received.

New York State DOH E.L.A.P. # 10350 **MassDEP Cert. # M-NY934**

Capital Region Environmental Laboratory
137 Columbia Turnpike, Rensselaer, NY 12144
(518) 949-2020

Needham Risk Management Resource Grou

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03332**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-3

Collect Date: 04/09/2025
Collect Time: 05:17
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	2.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

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Comments:
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1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03333**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-4

Collect Date: 04/09/2025
Collect Time: 05:18
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03334**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-5

Collect Date: 04/09/2025
Collect Time: 05:21
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:
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Printed On 4/14/2025

Sample ID: **BG03335**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-6

Collect Date: 04/09/2025
Collect Time: 05:22
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	19.0	15	X	ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards and/or National Primary/Secondary Drinking Water Standards.

Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:
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Needham Risk Management Resource Grou

1955 Ferndale Road
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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03336**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-NS-7

Collect Date: 04/09/2025
Collect Time: 05:23
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Comments:
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Printed On 4/14/2025

Sample ID: **BG03337**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-BF-8

Collect Date: 04/09/2025
Collect Time: 05:23
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Comments:
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Needham Risk Management Resource Grou

1955 Ferndale Road
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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03338**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-9

Collect Date: 04/09/2025
Collect Time: 05:24
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit	R Duplication outside acceptance limits	H Hold time exceeded
T Temperature outside specifications	A Sample contained air bubble or headspace	B Analyte detected in blank
C(+/-) CCV outside acceptancee limits	Z Analysis is not state-certified	G Incorrect bottle received
S(+/-) Lab control sample outside acceptance limits	M(+/-)Matrix spike recovery outside acceptance limits	P Sample preserved at lab
J Analyte detected below quantitation limit	I(+/-) IS/Surrogate outside acceptance limits	
(+ Result may be biased high / - Result may be biased low)		

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1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03339**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-10

Collect Date: 04/09/2025
Collect Time: 05:25
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	24.6	15	X	ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit	R Duplication outside acceptance limits	H Hold time exceeded
T Temperature outside specifications	A Sample contained air bubble or headspace	B Analyte detected in blank
C(+/-) CCV outside acceptancee limits	Z Analysis is not state-certified	G Incorrect bottle received
S(+/-) Lab control sample outside acceptance limits	M(+/-)Matrix spike recovery outside acceptance limits	P Sample preserved at lab
J Analyte detected below quantitation limit	I(+/-) IS/Surrogate outside acceptance limits	
(+ Result may be biased high / - Result may be biased low)		

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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03340**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-11

Collect Date: 04/09/2025
Collect Time: 05:27
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03341**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-12

Collect Date: 04/09/2025
Collect Time: 05:28
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03342**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-KF-13

Collect Date: 04/09/2025
Collect Time: 05:29
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards and/or National Primary/Secondary Drinking Water Standards.

Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:
Test procedures for all analyses meet NELAC requirements unless noted.

Brian Collins
Lead Technical Director Environmental Laboratory
and contact person
If you have questions, please call.
(518) 949-2020

Reviewed by Brian Collins
These results relate to samples as received.

New York State DOH E.L.A.P. # 10350 **MassDEP Cert. # M-NY934**

Capital Region Environmental Laboratory
137 Columbia Turnpike, Rensselaer, NY 12144
(518) 949-2020

Needham Risk Management Resource Grou

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03343**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-14

Collect Date: 04/09/2025
Collect Time: 05:32
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03344**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-WC-16

Collect Date: 04/09/2025
Collect Time: 05:35
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X Exceeds maximum contamination limit	R Duplication outside acceptance limits	H Hold time exceeded
T Temperature outside specifications	A Sample contained air bubble or headspace	B Analyte detected in blank
C(+/-) CCV outside acceptancee limits	Z Analysis is not state-certified	G Incorrect bottle received
S(+/-) Lab control sample outside acceptance limits	M(+/-)Matrix spike recovery outside acceptance limits	P Sample preserved at lab
J Analyte detected below quantitation limit	I(+/-) IS/Surrogate outside acceptance limits	
(+ Result may be biased high / - Result may be biased low)		

Legend: < Less Than, > Greater Than mg/L=PPM, ug/L=PPB If no collection time was given, 00:00 is reported

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Comments:
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Needham Risk Management Resource Grou

1955 Ferndale Road
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Castleton-on-Hudson ,NY 12033

Printed On 4/14/2025

Sample ID: **BG03345**
Date Received: 04/09/2025
Time Received: 10:50
Date Finalized: 4/14/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall High School
Sample Pt: WHS-1-IM-18

Collect Date: 04/09/2025
Collect Time: 05:36
Collected by: CHASE WOJTOWECZ
Receipt Temp: 15 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

Laboratory Report

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/11/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Comments:
Test procedures for all analyses meet NELAC requirements unless noted.

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Needham Risk Management Resource Group

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On : 4/18/2025

Sample ID: **BG03665**
Date Received: 04/17/2025
Time Received: 11:45
Date Finalized: 4/18/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary
Sample Pt: WES-1-KF-1-P

Collect Date: 04/17/2025
Collect Time: 09:30
Collected by: CHASE WOJTOWECZ
Receipt Temp: 20 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	3.6	15		ug/L	SM 22 3113B	MN	4/18/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
J	Analyte detected below quantitation limit	I(+/-)	IS/Surrogate outside acceptance limits		

(+ Result may be biased high / - Result may be biased low)

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Note 1: Per ELAP requirements, water analyzed for alkalinity, color, conductivity, nitrate, nitrite, sulfate, organics, UV absorbance, non-potable bacteriological analyses, BOD/CBOD, solids and phosphorus are required to be on ice to indicate the chilling process has begun. Samples must be between 0-6C and not frozen.

Comments:

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Brian Collins
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If you have questions, please call.
(518) 949-2020

Reviewed by Mitchell Niemeyer
These results relate to samples as received.

New York State DOH E.L.A.P. # 10350

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(518) 949-2020

Needham Risk Management Resource Group

1955 Ferndale Road
STE 102
Castleton-on-Hudson ,NY 12033

Printed On : 4/18/2025 Page 1 of 1

Sample ID: **BG03666**
Date Received: 04/17/2025
Time Received: 11:45
Date Finalized: 4/18/2025
PO Number:
Your Ref:

Customer: Needham Risk Management Resource Group
Owner: Whitehall CSD
Sample Loc: Whitehall Elementary
Sample Pt: WES-1-KF-1-P-F

Collect Date: 04/17/2025
Collect Time: 09:32
Collected by: CHASE WOJTOWECZ
Receipt Temp: 20 C See Note 1

Water Source: Purchased PWS
Chlorinated: No *Field Residual Chlorine:*

Potable: Yes
Grab/Comp: Grab

L a b o r a t o r y R e p o r t

Test	Result	MCL	Qualifiers	Units	Method Used	Analyst	Analysis Date
Lead (schools)	<1.0	15		ug/L	SM 22 3113B	MN	4/18/2025

Qualifiers Key:

X	Exceeds maximum contamination limit	R	Duplication outside acceptance limits	H	Hold time exceeded
T	Temperature outside specifications	A	Sample contained air bubble or headspace	B	Analyte detected in blank
C(+/-)	CCV outside acceptancee limits	Z	Analysis is not state-certified	G	Incorrect bottle received
S(+/-)	Lab control sample outside acceptance limits	M(+/-)	Matrix spike recovery outside acceptance limits	P	Sample preserved at lab
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3Ts Flushing Best Practices

Flushing is a tool schools can use as a general best practice to improve overall water quality and during flush sampling (i.e., samples targeting the plumbing inside of the wall).

LEAD IN DRINKING WATER IN SCHOOLS

The potential for lead to leach into water can increase the longer the water remains in contact with lead in plumbing. As a result, facilities with intermittent water use patterns, such as schools, may have elevated lead concentrations.

Testing helps evaluate plumbing systems and materials so that targeted remediation efforts can be taken. It is a key step in understanding the problem, if there is one, and designing an appropriate response.

EPA developed the *3Ts for Reducing Lead in Drinking Water* to assist schools and child care facilities with their drinking water testing program. The 3Ts applies a Training, Testing, and Taking Action approach.

WHAT IS FLUSHING?

"Flushing" involves opening taps and letting the water run to remove water that has been standing in the interior pipes and/or the outlets. The flushing time can vary by the type of outlet being cleared.

The degree to which flushing helps reduce lead levels can also vary depending upon the age and condition of the plumbing and the corrosiveness of the water.

Flushing is a tool, but only when used appropriately. This fact sheet helps you understand when flushing should be used, when it shouldn't, the pros and cons, and how to conduct flushing in your facility.

FLUSHING TO IMPROVE WATER QUALITY

In schools and child care facilities, establishing an ongoing flushing program is one of the quickest and easiest solution to ensure the water quality is preserved by decreasing water age.

In addition, flushing does not require installation or maintenance of water treatment equipment or complex instructions. Flushing can be used as a regular practice to ensure the water is regularly moving.

OFFICE OF GROUND WATER AND DRINKING WATER

Office of Water
EPA 815-F-18-027
October 2018

EPA 815-F-18-027 October 2018

FLUSHING AND SAMPLING FOR LEAD

When sampling for lead, it is important that the sample represents what is being consumed. For this reason, EPA typically encourages schools not to collect samples in the morning after vacations, weekends, or holidays because the water will have remained stagnant for too long and would not represent the water used for drinking during typical school days. It is recommended to flush after these breaks to maintain water quality.

EPA does not recommend flushing for the sole purpose of sampling but rather as a regular practice to ensure the water is regularly moving. Flushing right before sampling may cause results showing lower than representative lead levels in the water. Flushing is only appropriate during sampling when conducting follow-up flush sampling or sequential sampling to identify potential lead concerns in the interior plumbing.

"Flushing can be used as a **regular practice** to ensure the water is regularly moving."

FLUSHING AND REMEDIATION FOR LEAD

Flushing can be a quick and easy solution to high lead levels, especially when contamination is localized in a small area or in a small building. It can be used as a short-term solution as more permanent solutions are being implemented.

Automatically flushing individual problem outlets or all outlets may also represent an albeit ongoing, solution. This would involve the use of time-operated solenoid valves that can be installed and set to automatically flush the main pipes (headers) of the system. It is important to note that solenoid valves are not practical for flushing water coolers.

An important consideration when utilizing flushing for remediation is how often flushing should occur throughout the week and possibly throughout the day, and whether it is feasible for your facility. Depending upon the age and condition of the plumbing and the corrosiveness of the water elevated lead levels can return relatively quickly following flushing.

Unless you can ensure lead levels remain low throughout the day, it is not recommended to flush only once a day or once a week as a solution to high lead levels. Flushing immediately prior to use may be a short-term solution, in conjunction with signage and schedules.

Make sure to conduct samples after implementing flushing for remediation so you can ensure the water being provided does not contain elevated lead levels.

THE DOS AND DON'TS OF FLUSHING

The Dos

- Utilize flushing as a routine practice to improve overall water quality;
- Flush when it is included in a sample instruction (i.e., taking a follow-up flush sample);
- Flush after remediation. In addition to replacing or removing lead containing plumbing or fixtures. Flushing can help clear out debris or lead particulates that may be released when remediation occurs.

EPA 815-F-18-027 October 2018

The Don'ts

- Flush right before sampling. Flushing prior to sampling may cause samples to not be representative of daily consumption.
- Flush to reduce lead levels in coolers. Flushing is not recommended as a practical remedy for water coolers.
- Flush as a sole effort after finding unacceptable lead levels in your school, without ensuring lead levels will remain low throughout the day.
- Flushing as a long-term remediation effort alone. Flushing can be a measure that could be paired with permanent remediation like replacement and/or removal.

TIPS FOR DEVELOPING A FLUSHING PLAN

When using flushing as a regular practice or as a short-term remediation effort:

- Determine how water enters and flows through your facility by developing a plumbing profile;
- Locate all water outlets that are used for consumption;
- Utilize signage to indicate when and for how long flushing needs to occur at each outlet;
- Identify options for collection and nonpotable re-use of flushed water (e.g., plant watering); and
- Develop a system for accountability, including identifying one person who is in charge and record keeping.

ADDITIONAL RESOURCES

- **3Ts for Reducing Lead in Drinking Water (PDF)(2018).** Link: https://www.epa.gov/dwreginfo/3ts-reducing-lead-drinking-water-schools-and-child-care-facilities
- **3Ts Full Toolkit (Website)(2018).** Link: https://nepis.epa.gov/safewater/3Ts

Exhibit 1: 3Ts Flushing Instructions

Remember that each drinking water outlet should be flushed individually; flushing a toilet will not flush your water fountains. All flushing should be recorded in a log submitted daily to the office, or person, in charge of this program.

- Locate the faucet furthest away from the service line on each wing and floor of the building, open the faucets wide, and let the water run for 10 minutes. For best results, calculate the volume of the plumbing and the flow rate at the tap and adjust the flushing time accordingly. This 10-minute time frame is considered adequate for most buildings.
- Open valves at all drinking water fountains without refrigeration units and let the water run for roughly 30 seconds to one minute, or until cold.
- Let the water run on all refrigerated water fountains for 15 minutes. Because of the long time period required, routinely flushing refrigerated fountains may not be feasible. It may therefore be necessary, and more economical, to replace these outlets with lead-free, NSF-approved devices.
- Open all kitchen faucets (and other faucets where water will be used for drinking and/or cooking) and let the water run for 30 seconds to one minute, or until cold.