

DRINKING WATER TESTING REPORT (COPPER AND LEAD)

(Results of Testing Conducted on April 29, 2016)

PERFORMANCE ENVIRONMENTAL SERVICES Project # 161311

FOR

Ms. Regan Hamilton
Director of Facilities
Cornerstone Charter Schools
P.O. Box 2000
Taylor, Michigan 48180

AT

Washington Parks Academy 11685 Appleton Redford, MI

Report Date: May 12, 2016

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1.0 SUMMARY OF FINDINGS

In accordance with your request, Performance Environmental Services, Inc. (*Performance*) conducted drinking water testing on April 29, 2016 at Washington Parks Academy located at 11685 Appleton in Detroit, Michigan. The purpose of the testing was to document the absence or presence of potential health hazards associated with the exposure of copper and lead in the drinking water. The study included the collection of representative drinking water samples.

The results of the drinking water testing do not indicate a need for response actions to reduce exposure at this time.

Enclosed, please find the Drinking Water Testing Report. If there are any questions or comments concerning this report or our recommendations, please do not hesitate to contact us.

Respectfully,

PERFORMANCE ENVIRONMENTAL SERVICES, INC.

en a. Wood

Dennis A. Wood

Senior Project Manager

DAW:hr

2.0 BACKGROUND

In accordance with your request, Performance Environmental Services, Inc. (*Performance*) conducted drinking water testing for copper and lead at Washington Parks Academy located at 11685 Appleton in Redford, Michigan. The purpose of the testing was to document the absence or presence of potential health hazards associated with copper and lead in the drinking water as described in the EPA document entitled "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance" for facilities not defined as a public water system who are required to adhere to the EPA Lead and Copper Rule (40 CFR Part 141 Subpart I). The study included the collection of representative drinking water samples. *Performance* conducted the drinking water testing on April 29, 2016.

3.0 ASSESSMENT METHODOLOGY

3.1 Drinking Water Testing

Performance implemented sampling methodologies as described in section 4 of the "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance" to collect drinking water samples for concentrations of copper and lead. The samples were collected first draw (stagnant sample) using laboratory provided 250 ml containers. The samples were maintained under a chain-of-custody record and submitted to a laboratory for analysis by Inductively Coupled Plasma – Mass Spectrometry (EPA method 200.8). The samples were analyzed by Brighton Analytical, L.L.C. located at 2105 Pless Drive, Brighton, MI 48116 (810)229-7575.

4.0 RESULTS

4.1 Drinking Water Analysis

Nineteen (19) samples were collected for concentrations of copper and lead. The EPA Lead and Copper rule requires that copper concentrations not exceed an action level of 1.3 ppm (1,300 ppb) and lead concentrations not exceed an action level of 20 ppb. The results are as follows:

Copper Results:

Sample ID	Location	Result (ppb)	EPA Action Level (ppb)
11685-1	Drinking fountain at door 9	90	1,300
11685-2	Kitchen sink in faculty lounge	400	1,300
11685-3	Kitchen wash sink	440	1,300
11685-4	Principal's bathroom sink	100	1,300
11685-5	Mail room sink	380	1,300
11685-6	Boys bathroom sink by room 121	240	1,300
11685-7	Sink in room 121	910	1,300
11685-8	East drinking fountain by room 125	300	1,300
11685-9	West drinking fountain by room 125	200	1,300
11685-10	East drinking fountain across from room 132	390	1,300
11685-11	West drinking fountain across from room 132	210	1,300
11685-12	Sink in room 131	150	1,300

Sample ID	Location	Result (ppb)	EPA Action Level (ppb)
11685-13	Southwest sink in room 145	900	1,300
11685-14	East 2nd floor drinking fountain by room 223	310	1,300
11685-15	West 2nd floor drinking fountain by room 223	240	1,300
11685-16	Sink in 2nd floor copy room	490	1,300
11685-17	East 2nd floor drinking fountain by room 231	90	1,300
11685-18	West 2nd floor drinking fountain by room 231	100	1,300
11685-19	Sink in 2nd floor teachers bathroom next to	140	1,300
	room 231		

Lead Results:

Sample ID	Location	Result (ppb)	EPA Action Level (ppb)
11685-1	Drinking fountain at door 9	Not detected	20
11685-2	Kitchen sink in faculty lounge	1	20
11685-3	Kitchen wash sink	Not detected	20
11685-4	Principal's bathroom sink	1	20
11685-5	Mail room sink	Not detected	20
11685-6	Boys bathroom sink by room 121	1	20
11685-7	Sink in room 121	Not detected	20
11685-8	East drinking fountain by room 125	Not detected	20
11685-9	West drinking fountain by room 125	Not detected	20
11685-10	East drinking fountain across from room 132	Not detected	20
11685-11	West drinking fountain across from room 132	Not detected	20
11685-12	Sink in room 131	Not detected	20
11685-13	Southwest sink in room 145	15	20
11685-14	East 2nd floor drinking fountain by room 223	Not detected	20
11685-15	West 2nd floor drinking fountain by room 223	Not detected	20
11685-16	Sink in 2nd floor copy room	10	20
11685-17	East 2nd floor drinking fountain by room 231	Not detected	20
11685-18	West 2nd floor drinking fountain by room 231	Not detected	20
11685-19	Sink in 2nd floor teachers bathroom next to room 231	Not detected	20

5.0 BACKGROUND INFORMATION

5.1 Health Effects of Lead Exposure

Lead can cause serious health problems if too much enters your body from drinking water or other sources. Some facts about lead exposure include:

• Infants, young children and pregnant women are at greatest risk to lead exposure;

- Increased lead levels have been shown to cause damage to the brain and kidneys;
- Increased lead levels interfere with the production of red blood cells that carry oxygen to all parts of your body;
- Scientists have linked the effects of lead on the brain to lowered intelligence quotient (IQ) in children;
- Adults with kidney problems and high blood pressure can be affected by lower levels of lead more than healthy adults;
- Lead is stored in the bones and it can be released later in life; and,
- During pregnancy, the fetus can receive lead from the mother's bones which may affect brain development.

5.2 Health Effects of Copper Exposure

Excess copper exposure can cause stomach and intestinal distress, liver or kidney damage, and complications of Wilson's disease. In addition, children's bodies absorb more copper than the average adult because of their rapid development and higher metabolism.

6.0 LIMITATIONS

The results of our tests represent conditions only at the time sampling occurred; thus, this report should not be relied on to represent conditions at other locations, times, or dates. Our opinions are based upon findings and upon our professional expertise with no warranty or guarantee implied herein. This report is intended for the sole use of your firm and its assigned agents. *Performance* accepts no responsibility for interpretation of this report by others. Its content shall not be used or relied on by other parties without prior written authorization of *Performance*.

APPENDIX ANALYTICAL RESULTS

CONTENTS

- CERTIFICATES OF LABORATORY ANALYSIS
- ► CHAIN OF CUSTODY RECORDS

2105 Pless Drive · Brighton, Michigan 48114 · Phone (810) 229-7575 · Fax (810) 229-8650 · E-mail bai-brighton@sbcglobal.net

May 10, 2016

Performance Environmental 30553 Wixom Road Suite 500 Wixom, MI 48393

Subject:

Washington Parks Academy-11685 Appleton

Redford, MI, 161311

Dear Mr. Carpenter:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/29/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 38813 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







TIME: n/a no 🗆 no COMPANY/MAILING ADDRESS: yes I no yes Performance Environmenta 01 yes 🗷 BILLING ADDRESS (IF REOURED) -320 W:XBM Drinking H₂O: Client Notified (date/time/initials): ° 2 Headspace/bubbles in VOA's? yes □ PAGE OF Sample containers and COC match? Fax to LCHD? yes □ nox Samples received within hold time? 00 yes 🔽 Temperature of samples °C: yes 🗆 Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses pHs verified in login? FAX OR EMAIL: MCL Failure: RECEIVED BY: 30553 PHONE: ATTN: Analysis Requested/Method RELINQUISHED BY: + Trans. Sample Matrix DW = Drinking H₂0 ABBREVIATIONS MEOH BIGSGLAGG X N A = Air (Tedlar Bag) BA PROJECT #: 4.29.1629 TIME: FOR MATRIX L = Liquid 0 = 0:1 P = Wipe F = Filter T = Tube & Quantity S = Solid STERILIZED BACTERIA M = Misc388 AMBER DATE PRESERVED? Container Type ADPE NAOH HDPE H₂SO₄ -11685 X HDPE HNO5 Phone: 810-229-7575 Brighton Analytical, L.L.C.TM Fax: 810-229-8650 IDDE UNPRESERVED RECEIVED BY: NOV.2 (ERES) X 20,0 800 9:15 Awden 6976 9:00 20% 116 Time approved by: Sample Coll. LOMBO W. Co-rolate Date Zed ford, PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS) PROJECT NAME: Washington Parts -25X Cost 2 Day = 2X Cost 3 Day = 15X Cost Rush: 1-3 business days (verify with lab & specify date needed) Brighton, MI 48114 Sink Sink Sink Homes W. Curpentex Sirr Sink Sint 2105 Pless Drive Sample Description REQUESTED TURNAROUND: (circle one) RELINQUISHED BY: Applie tong. 01-58911 7.5831194 00 1-58911 8-58911 ++ Special Instructions: -28911 635 580 Standard: 5 business days Sample collected by: 640 S PROJECT #: Brighton ID # Frams. 2 10) 3 4 2 9 6 8

Pertornage Enviouncte TIME: n/a no 🗆 no 🗆 COMPANY/MAILING ADDRESS: no 🗆 S. NIXON no yes 🗌 yes 🗆 BILLING ADDRESS (IF REQUIRED) yes 🗆 DATE: yes 🔲 Drinking H₂0: Client Notified (date/time/initials): PAGE OF Sample containers and COC match? 0П yes 🔲 no 🗀 Samples received within hold time? AMT: no 🗆 Chlorinated Water Supply? yes 🗌 Headspace/bubbles in VOA's? Temperature of samples °C: yes 🗆 Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses pHs verified in login? Xom Fax to LCHD? FAX OR EMAIL: PHONE: 248 MCL Failure: RECEIVED BY: Analysis Requested/Method RELINQUISHED BY: 12000 X X Trans. 4-29-46-25-50 Sample Matrix DW = Drinking H20 MEOH Preserved Y N ABBREVIATIONS A = Air (Tedlar Bag) BA PROJECT #: TIME: FOR MATRIX L = Liquid 5 & Quantity S = Solid P = Wipe F = Filter T = Tube M = Misc. LEKILIZED BACTERIA 0 = 0il **∀MBE**B PRESERVED? DATE: Container Type HDPE NAOH HDPE H2SO4 Madery - 11685 НРРЕ НИО₃ AT C Phone: 810-229-7575 Brighton Analytical, L.L.C. Fax: 810-229-8650 HDDE ONDIFESERAED RECEIVED BY: VOA'S (PRES) Y 2:2 27.56 4-29 9120 8216 KZ:b 839 3% 243 Time approved by: Sample Coll. arperte If RUSH. Date PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS) Partis 1 Day = 2.5% Cost 2 Day = 2X Cost 3 Day = 1.5X Cost ess days (verify with lab & specify date needed) SILK Brighton, MI 48114 くられ SRK 3 PROJECT NAME: WOShing ton Sample Description 2105 Pless Drive Homes Directo REQUESTED TURNAROUND: (circle one)
Rush: 1-3 business days (verify with lab & specify RELINQUISHED BY: homos ooleton 51-5871 91-589 11-58911 11-5891 11635-18 11685-12 Special Instructions: 116851 1-589 1685-1 Standard: 5 business days Sample collected by: 25 23 PROJECT #: Brighton ID # 200 1)1685 00 58 5 5 Trans. 2 10) 4 3 2 9 6 8 6



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:00

14:50

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

BA Sample ID

Report Date:

38813

CD01675

5/10/2016

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-1 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	90	ug/L	20	1300	EPA 200.8 rev5.4	05:13	05/06/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	05:13	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



2105 Pless Drive
Brighton, Michigan 48114
Phone: (810)229-7575 (810)229-8650
e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

4/29/2016 5/10/2016

09:05 14:50

Performance Environmental 30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #
BA Sample ID

Report Date:

38813

CD01676

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-2 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Tir	ne Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	400	ug/L	20	1300	EPA 200.8 rev5.4	05:17	05/06/2016
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	05:17	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by_



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NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:06 14:50

Report Date:

5/10/2016

30553 Wixom Road

Suite 500

Wixom, MI 48393

Performance Environmental

BA Project #

BA Sample ID

38813

30013

CD01677

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-3 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water)	440	/1	20	1200	TD 4 200 0	05.00	0.5/0.4/0.4/0
Total Lead (Drinking Water)	440 Not detected	ug/L ug/L	20 1	1300 15	EPA 200.8 rev5.4 EPA 200.8 rev5.4	05:22 05:22	05/06/2016 05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Utfosd
Date (5/10/16



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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

29/2016 09:08 29/2016 14:50

Report Date:

5/10/2016

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

38813

BA Sample ID **CD01678**

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-4 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water)	100	/!	20	4200	FD 1 200 D 5 4	05.04	0.000
Total Lead (Drinking Water)	100 1	ug/L ug/L	20 1	1300 15	EPA 200.8 rev5.4 EPA 200.8 rev5.4	05:26 05:26	05/06/2016 05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

09:09 14:50

Report Date:

5/10/2016

Performance Environmental

30553 Wixom Road

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Wixom, MI 48393

BA Project #

BA Sample ID

38813

CD01679

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-5 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	380 Not detected	ug/L ug/L	20	1300 15	EPA 200.8 rev5.4 EPA 200.8 rev5.4	05:31 05:31	05/06/2016 05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:10 14:50

Performance Environmental

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Wixom, MI 48393

BA Project #

BA Sample ID

Report Date:

38813

CD01680

5/10/2016

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-6 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Tim	e Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	240	ug/L	20	1300	EPA 200.8 rev5.4	05:35	05/06/2016
Total Lead (Drinking Water)	1	ug/L	1	15	EPA 200.8 rev5.4	05:35	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

5/10/2016

09:12 14:50

Performance Environmental

30553 Wixom Road

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Wixom, MI 48393

BA Project #

38813

Project Name: Washington Parks Academy-11685 Appleton

BA Sample ID CD01681

Report Date:

Project Number: Redford, MI, 161311 Sample ID: 11685-7 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	910	ug/L	20	1300	EPA 200.8 rev5.4	05:40	05/06/2016
	Not detected	ug/L	1	15	EPA 200.8 rev5.4	05:40	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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NELAC Accredited #176507

Sample Date/Time: 4/29/2016

Submit Date/Time: 4/29/2016

16 09:13 16 14:50

Report Date: 5/10/2016

09:13 14:50

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #
BA Sample ID

38813

39913

CD01682

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-8 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
D'1' W/ M/14 1							
Drinking Water Metal Analysis Total Copper (Drinking Water)	300	ug/L	20	1300	EPA 200.8 rev5.4	05:58	05/06/2016
Total Lead (Drinking Water)	Not detected	Ü	1	15	EPA 200.8 rev5.4	05:58	05/06/2016
Total Lead (Dilliking Water)	Not detected	ug/L	1	13	EFA 200.6 1673.4	05.56	03/00/2010

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Uttopol
Date Sliphic



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:14 14:50

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

Report Date:

5/10/2016

BA Project #

BA Sample ID

38813

CD01683

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-9 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis	200	ua/I	20	1300	EPA 200.8 rev5.4	06:03	05/06/2016
Total Copper (Drinking Water) Total Lead (Drinking Water)	Not detected	ug/L ug/L	1	1500	EPA 200.8 rev5.4	06:03	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

09:15 14:50

Report Date:

5/10/2016

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project # BA Sample ID 38813

CD01684

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-10 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water)	390	ug/L	20	1300	EPA 200.8 rev5.4	06:07	05/06/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	06:07	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Date



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

5/10/2016

14:50

09:20

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

BA Sample ID

Report Date:

38813

CD01685

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-11 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	210	ug/L	20	1300	EPA 200.8 rev5.4	06:25	05/06/2016
	Not detected	ug/L	1	15	EPA 200.8 rev5.4	06:25	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

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2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

09:22 14:50

Report Date: 5/10/2016 Performance Environmental 30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

38813

Project Name: Washington Parks Academy-11685 Appleton

BA Sample ID

CD01686

Project Number: Redford, MI, 161311

Sample ID: 11685-12 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	150	ug/L	20	1300	EPA 200.8 rev5.4	06:30	05/06/2016
	Not detected	ug/L	1	15	EPA 200.8 rev5.4	06:30	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net MDNRE Certified #9404 NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:22

Report Date:

5/10/2016

14:50

Performance Environmental 30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project # BA Sample ID

38813

CD01687

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-13 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	900	ug/L	20	1300	EPA 200.8 rev5.4	06:34	05/06/2016
	15	ug/L	1	15	EPA 200.8 rev5.4	06:34	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by



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e-mail:bai-brighton@sbcglobal.net
MDNRE Certified #9404
NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

29/2016 09:26 29/2016 14:50

Report Date:

5/10/2016

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

38813

BA Sample ID CD01688

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-14 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water)	310	ug/L	20	1300	EPA 200.8 rev5.4	06:39	05/07/2017
Total Lead (Drinking Water)	Not detected	U	1	15	EPA 200.8 rev5.4	06:39	05/06/2016 05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

09:28

14:50

5/10/2016

Performance Environmental 30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project # BA Sample ID

Report Date:

38813

CD01689

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-15 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water) Total Lead (Drinking Water)	240 Not detected	ug/L ug/L	20	1300 15	EPA 200.8 rev5.4 EPA 200.8 rev5.4	06:57 06:57	05/06/2016 05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:30 14:50

Report Date:

5/10/2016

Performance Environmental 30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

38813

Project Name: Washington Parks Academy-11685 Appleton

BA Sample ID

CD01690

Project Number: Redford, MI, 161311 Sample ID: 11685-16 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Tim	ne Analysis Date
Duinking Water Metal Analysis							
Drinking Water Metal Analysis Total Copper (Drinking Water)	490	ug/L	20	1300	EPA 200.8 rev5.4	07:02	05/06/2016
Total Lead (Drinking Water)	10	ug/L	1	15	EPA 200.8 rev5.4	07:02	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by Date Sholl



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Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016 09:40 14:50

Report Date:

5/10/2016

Performance Environmental

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Wixom, MI 48393

BA Project #

38813

BA Sample ID CD01691 Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-17 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	90	ug/L	20	1300	EPA 200.8 rev5.4	07:06	05/06/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	07:06	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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NELAC Accredited #176507

Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

5/10/2016

09:43 14:50

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project #

BA Sample ID

Report Date:

38813

CD01692

Projec

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-18 DF

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis Total Copper (Drinking Water)	100	ug/L	20	1300	EPA 200.8 rev5.4	07:11	05/06/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	07:11	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

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Sample Date/Time: 4/29/2016 Submit Date/Time: 4/29/2016

09:45

14:50

Report Date:

5/10/2016

Performance Environmental

30553 Wixom Road

Suite 500

Wixom, MI 48393

BA Project # BA Sample ID 38813

CD01693

Project Name: Washington Parks Academy-11685 Appleton

Project Number: Redford, MI, 161311

Sample ID: 11685-19 Sink

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	140	ug/L	20	1300	EPA 200.8 rev5.4	07:15	05/06/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	07:15	05/06/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

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BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

ICP-MS METHOD 200.8/6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date:	5/6/2016	Standard ID: 0	50416 H2O	Batch: 5	5/4/2016 W5
Matrix Spike Lab ID:	CD01684	Matrix:	Total	Analyst:	LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/kg)	Matrix Spike Dup (ug/kg)	RPD (%)	Spk Conc (ug/kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/kg)	Method Blk (ug/kg)	LCS- Method STD (%)	Ind. Std. (%)
Copper	1473	1445	1.9	1000	108.3	105.5	390	<20	104.9	97.7
Lead	962	955	0.7	1000	96.2	95.5	0	<1	97.6	92.8

^{*} Matrix spike precision range +/- 20% RPD

Comments:		
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^{**} Matrix spike accuracy range +/- 20% recovery

^{***} LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery