

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Midvale - Resample 082118

TRACE ID: T18H547-01

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-02-BF	8/21/18 6:00	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.22 mg/L	1.3	8/27/18 12:39	8/28/18 11:18	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 11:18	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-02

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-06-BF	8/21/18 6:01	twb	8/21/18 19:24

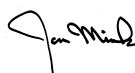
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.031 mg/L	1.3	8/27/18 12:39	8/28/18 11:20	jbb	EPA 200.8 Rev. 5.4
Lead	0.0011 mg/L	0.015	8/27/18 12:39	8/28/18 11:20	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-03

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-10-CF	8/21/18 6:02	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.099 mg/L	1.3	8/27/18 12:39	8/28/18 11:21	jbb	EPA 200.8 Rev. 5.4
Lead	0.0084 mg/L	0.015	8/27/18 12:39	8/28/18 11:21	jbb	EPA 200.8 Rev. 5.4

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Midvale - Resample 082118

TRACE ID: T18H547-04

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-12-BF	8/21/18 6:03	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 11:23	jbb	EPA 200.8 Rev. 5.4
Lead	0.0034 mg/L	0.015	8/27/18 12:39	8/28/18 11:23	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-05

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-13-CF	8/21/18 6:04	twb	8/21/18 19:24

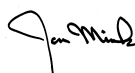
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.10 mg/L	1.3	8/27/18 12:39	8/28/18 11:26	jbb	EPA 200.8 Rev. 5.4
Lead	0.0051 mg/L	0.015	8/27/18 12:39	8/28/18 11:26	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-06

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-15-BF	8/21/18 6:05	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 11:27	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 11:27	jbb	EPA 200.8 Rev. 5.4

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Midvale - Resample 082118

TRACE ID: T18H547-07

Sample Point Description	Collected	Collected By	Received at Laboratory			
MV-18-BF	8/21/18 6:06	twb	8/21/18 19:24			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.044 mg/L	1.3	8/27/18 12:39	8/28/18 11:29	jbb	EPA 200.8 Rev. 5.4
Lead	0.027 mg/L	0.015	8/27/18 12:39	8/28/18 11:29	jbb	EPA 200.8 Rev. 5.4

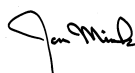
TRACE ID: T18H547-08

Sample Point Description	Collected	Collected By	Received at Laboratory			
MV-19-CF	8/21/18 6:07	twb	8/21/18 19:24			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.089 mg/L	1.3	8/27/18 12:39	8/28/18 11:33	jbb	EPA 200.8 Rev. 5.4
Lead	0.0099 mg/L	0.015	8/27/18 12:39	8/28/18 11:33	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-09

Sample Point Description	Collected	Collected By	Received at Laboratory			
MV-23-CF	8/21/18 6:08	twb	8/21/18 19:24			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.043 mg/L	1.3	8/27/18 12:39	8/28/18 11:35	jbb	EPA 200.8 Rev. 5.4
Lead	0.0025 mg/L	0.015	8/27/18 12:39	8/28/18 11:35	jbb	EPA 200.8 Rev. 5.4

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Midvale - Resample 082118

TRACE ID: T18H547-10

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-26-CF	8/21/18 6:09	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.080 mg/L	1.3	8/27/18 12:39	8/28/18 11:36	jbb	EPA 200.8 Rev. 5.4
Lead	0.0024 mg/L	0.015	8/27/18 12:39	8/28/18 11:36	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-11

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-30-BF	8/21/18 6:10	twb	8/21/18 19:24

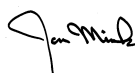
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 11:38	jbb	EPA 200.8 Rev. 5.4
Lead	0.0016 mg/L	0.015	8/27/18 12:39	8/28/18 11:38	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-12

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
MV-41-BF	8/21/18 6:11	twb	8/21/18 19:24

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.10 mg/L	1.3	8/27/18 12:39	8/28/18 11:39	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 11:39	jbb	EPA 200.8 Rev. 5.4

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

State of Michigan Laboratory ID: 8001

August 29, 2018

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: Midvale - Resample 082118

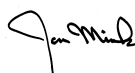
TRACE ID: T18H547-13

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>			
MV-47-BF	8/21/18 6:12	twb	8/21/18 19:24			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 11:41	jbb	EPA 200.8 Rev. 5.4
Lead	0.14 mg/L	0.015	8/27/18 12:39	8/29/18 8:25	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H547-14

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>			
MV-48-CF	8/21/18 6:13	twb	8/21/18 19:24			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 11:42	jbb	EPA 200.8 Rev. 5.4
Lead	0.0012 mg/L	0.015	8/27/18 12:39	8/28/18 11:42	jbb	EPA 200.8 Rev. 5.4

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.



Jon Mink
 Senior Project Manager

Birmingham Schools Fixture Inventory

Page 1 of 1

Building: Midvale

Date Collected: 8-21-18

Trace ID: T18H547

Sampler's Initials: TWB

Logged by: AW

Checked by: B

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	6:00	MV-02-BF	Rm 7	2695	Y	Br, Cu	
2	6:01	MV-06-BF	Rm 6	2700	Y	Br, Cu	
3	6:02	MV-10-CF	Rm 4	2703	Y	Unknown	
4	6:03	MV-12-BF	Rm 4	2704	Y	Br, Cu	
5	6:04	MV-13-CF	Rm 3	2705/06	Y	Br, Cu	
6	6:05	MV-15-BF	Rm 3	2707	Y	Br, Cu	
7	6:06	MV-18-BF	Rm 2	2709	Y	Br, Cu	
8	6:07	MV-19-CF	Rm 1	2710	Y	Br, Cu	
9	6:08	MV-23-CF	Rm 9	2713/14	Y	Br, Cu	
10	6:09	MV-26-CF	Rm 10	2716/17	Y	Br, Cu	
11	6:10	MV-30-BF	Rm 11	2721	Y	Br, Cu	
12	6:11	MV-41-BF	Main Lobby Restroom	2731	Y	Br, Cu	
13	6:12	MV-47-BF	NEXT- Rm 3 - left	2736	Y	Br, Cu	
14	6:13	MV-48-CF	NEXT- Rm 4 - left	2737	Y	Br, Cu, P	

Abbreviations:

- B= Classroom Bubbler
- BF= Bathroom Faucet
- Bottle= Bottle Filler
- CF= Classroom Faucet
- DF= Drinking Fountain
- DS= Deep Sink
- EW= Eye Wash
- HS= Hand Sink
- KF= Kitchen Faucet

Connecting Plumbing:

- Br= Brass
- Cu= Copper
- G= Galvanized
- P= Plastic
- SS= Stainless Steel

Released by: [Signature]

Received by: [Signature]

Date: 8/21/18 Time: 19:24

SAMPLE LOG IN CHECKLIST

Trace ID #: T18H347 Date: 8/21/18 Package Description: Cooler Temperature: 21.6
 Client Name: Birmingham Schools Time: 19:24 Logged in by: dl

Cooler Receipt

Cooler/samples delivered by: Trace courier
 Hand delivered Name of delivery person: _____
 Commercial courier UPS FED EX US Mail
 Tracking Number: Not Applicable
 Tracking #: _____
 COC Seals present and intact on cooler? Not Applicable No Yes
 Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice?
 Multiple bags of ice around samples?
 Ice Packs/ Blue Ice:
 No Coolant Present:
 Ice still present upon receipt (circle one):
 Yes No (N/A)

Cooler Temperature

Correction Factors: *Digital Stick Thermometer CF = -0.6°C
 *IR Thermometer CF = -0.8°C
 Representative Sample Temperature: 21.4 °C (check one below)
 Temp Blank (Stick Thermometer)
 Client Sample (IR Thermometer)
 Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below* pH will be verified at the time of the turbidity check.
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 pH 11.0-13.0
 Lot: HC731452 Lot: HC600691

Other: _____