

State of Michigan Laboratory ID: 8001

August 23, 2017

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

*J. King*

**PROJECT: Seaholm**

TRACE ID: T17H235-01

*Sample Point Description* S-82-CF      *Collected* 8/10/17 10:00      *Collected By* twb      *Received at Laboratory* 8/11/17 9:51

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.84 mg/L	1.3	8/14/17 17:11	8/22/17 13:17	dtm	EPA 200.8 Rev. 5.4
Lead	0.0012 mg/L	0.015	8/14/17 17:11	8/21/17 19:11	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H235-02

*Sample Point Description* S-107-CF      *Collected* 8/10/17 9:52      *Collected By* twb      *Received at Laboratory* 8/11/17 9:51

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.37 mg/L	1.3	8/14/17 17:14	8/21/17 19:18	dtm	EPA 200.8 Rev. 5.4
Lead	0.0058 mg/L	0.015	8/14/17 17:14	8/21/17 19:18	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H235-03

*Sample Point Description* S-127-CF      *Collected* 8/10/17 9:48      *Collected By* twb      *Received at Laboratory* 8/11/17 9:51

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.53 mg/L	1.3	8/14/17 17:14	8/21/17 19:31	dtm	EPA 200.8 Rev. 5.4
Lead	0.0011 mg/L	0.015	8/14/17 17:14	8/21/17 19:31	dtm	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*

Jon Mink  
 Senior Project Manager

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TRACE ID: T17H235-04

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-129-CF		8/10/17	9:50	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.26 mg/L	1.3	8/14/17 17:14	8/21/17 19:33	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:14	8/21/17 19:33	dtm	EPA 200.8 Rev. 5.4	

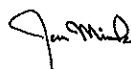
TRACE ID: T17H235-05

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-130-CF		8/10/17	9:46	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.18 mg/L	1.3	8/14/17 17:14	8/21/17 19:35	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:14	8/21/17 19:35	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17H235-06

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-158-CF		8/10/17	9:44	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.46 mg/L	1.3	8/14/17 17:14	8/21/17 19:38	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:14	8/21/17 19:38	dtm	EPA 200.8 Rev. 5.4	

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TRACE ID: T17H235-07

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-162-CF		8/10/17	9:42	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.24 mg/L	1.3	8/14/17 17:14	8/21/17 19:40	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0071 mg/L	0.015	8/14/17 17:14	8/21/17 19:40	dtm	EPA 200.8 Rev. 5.4	

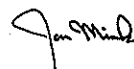
TRACE ID: T17H235-08

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-171-CF		8/10/17	9:43	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.20 mg/L	1.3	8/14/17 17:14	8/21/17 19:43	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:14	8/21/17 19:43	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17H235-09

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-196-CF		8/10/17	9:40	twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.26 mg/L	1.3	8/14/17 17:14	8/21/17 19:45	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0013 mg/L	0.015	8/14/17 17:14	8/21/17 19:45	dtm	EPA 200.8 Rev. 5.4	

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TRACE ID: T17H235-10

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-210-CF		8/10/17 9:33		twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.51 mg/L	1.3	8/14/17 17:14	8/22/17 13:20	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:14	8/21/17 19:48	dtm	EPA 200.8 Rev. 5.4	

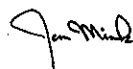
TRACE ID: T17H235-11

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-211-CF		8/10/17 9:37		twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.15 mg/L	1.3	8/14/17 17:14	8/21/17 19:50	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0026 mg/L	0.015	8/14/17 17:14	8/21/17 19:50	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17H235-12

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
S-276-BF		8/10/17 10:03		twb		8/11/17 9:51	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.48 mg/L	1.3	8/14/17 17:14	8/21/17 19:53	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0016 mg/L	0.015	8/14/17 17:14	8/21/17 19:53	dtm	EPA 200.8 Rev. 5.4	

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Jon Mink  
 Senior Project Manager

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PROJECT: Seaholm

TRACE ID: T17H235-13

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
S-278-BF	8/10/17 10:05	twb	8/11/17 9:51

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.73 mg/L	1.3	8/14/17 17:14	8/22/17 13:23	dtm	EPA 200.8 Rev. 5.4
Lead	0.011 mg/L	0.015	8/14/17 17:14	8/21/17 20:05	dtm	EPA 200.8 Rev. 5.4

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A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink  
Senior Project Manager

**Birmingham Schools Fixture Inventory**

Page 1 of 1

Building: Seaholm

Date Collected: 8-10-17  
 Sampler's Initials: TWB

Trace ID: TF7 H235  
 Logged by: [Signature]  
 Checked by: [Signature]

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	10:00	S-82-CF	C 102	2079/80	Y	Br, Cu	
2	9:52	S-107-CF	C101 Teacher's Sink	2096	Y	Br, Cu	
3	9:48	S-127-CF	Teacher's Sink - B 111	2113	Y	Unknown	
4	9:50	S-129-CF	Math & Sciences Office	2115/16/17	Y	Br, Cu	
5	9:46	S-130-CF	B110- Teacher's Sink	2118	Y	Unknown	
6	9:44	S-158-CF	B109 Front Table	2140	Y	Unknown	
7	9:42	S-162-CF	B108- Front Sink	2144	Y	Unknown	
8	9:43	S-171-CF	B107 Teacher's Sink	2150	Y	Unknown	
9	9:40	S-196-CF	B106 Teacher's Sink	2170	Y	Unknown	
10	9:33	S-210-CF	B103	2184	Y	Br, Cu	
11	9:37	S-211-CF	B105 Teacher's Sink	2185	Y	Unknown	
12	10:08	S-276-BF	Dressing Rm 1	2245	Y	Br, Cu	
13	10:05	S-278-BF	Dressing Rm 2- Left	2247	Y	Br, Cu	

**Abbreviations:**

B= Classroom Bubbler  
 BF= Bathroom Faucet  
 Bottle= Bottle Filler  
 CF= Classroom Faucet  
 DF= Drinking Fountain  
 DS= Deep Sink  
 EW= Eye Wash

**Connecting Plumbing:**

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

Released by: [Signature]

Received by: [Signature]

Date: 8/11/17 Time: 2:57

### SAMPLE LOG IN CHECKLIST

Trace ID #: 117H-235    Date: 8/11/17    Package Description: Codes    Temperature: 22.3  
 Client Name: Birmingham - Sehelm    Time: 9:57    Logged In by: JS

#### Cooler Receipt

Cooler/samples delivered by:    Trace courier   
 Hand delivered     Name of delivery person: Tim Brewer  
 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 = -0.4°C  
 Representative Sample Temperature: 22.3 °C (check one below)  
 Temp Blank (Stick Thermometer)  
 Client Sample (IR Thermometer)  
 Melt Water: None °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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Below*
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 checked="" type="checkbox"/>	<input type="checkbox"/>	

**Notes:**

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**\*EMD pH Test Strips Used:**

pH 0-2.5     pH 11.0-13.0  
 Lot: HC563733    Lot: HC647328

Other: \_\_\_\_\_

Lot: HC563733 verified 02/1/16 AY  
 Lot: HC574701 verified 04/03/17 JS

