



Trace Analytical Laboratories, Inc.  
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State of Michigan Laboratory ID: 8001

March 15, 2017

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

PROJECT: Groves

TRACE ID: T17B406-01

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-34-CF	2/25/17 8:43	twb	2/27/17 8:48			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.41 mg/L	1.3	3/13/17 7:33	3/14/17 17:28	dtm	EPA 200.8 Rev. 5.4
Lead	0.0012 mg/L	0.015	3/13/17 7:33	3/14/17 17:28	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17B406-02

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-48-BF	2/25/17 8:46	twb	2/27/17 8:48			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.23 mg/L	1.3	3/13/17 7:33	3/14/17 17:33	dtm	EPA 200.8 Rev. 5.4
Lead	<b>0.025 mg/L</b>	<b>0.015</b>	3/13/17 7:33	3/14/17 17:33	dtm	<b>EPA 200.8 Rev. 5.4</b>

TRACE ID: T17B406-03

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-192-BF	2/25/17 8:49	twb	2/27/17 8:48			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.24 mg/L	1.3	3/13/17 7:33	3/14/17 17:36	dtm	EPA 200.8 Rev. 5.4
Lead	0.014 mg/L	0.015	3/13/17 7:33	3/14/17 17:36	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  
 Senior Project Manager

**State of Michigan Laboratory ID: 8001**

March 15, 2017

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

**PROJECT: Groves**

**TRACE ID: T17B406-04**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-252-CF	2/25/17	9:11	twb		2/27/17 8:48	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.45 mg/L	1.3	3/13/17 7:33	3/14/17 17:38	dtm	EPA 200.8 Rev. 5.4
Lead	0.0024 mg/L	0.015	3/13/17 7:33	3/14/17 17:38	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17B406-05**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-332-BF	2/25/17	9:15	twb		2/27/17 8:48	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.24 mg/L	1.3	3/13/17 7:33	3/14/17 17:41	dtm	EPA 200.8 Rev. 5.4
Lead	0.0047 mg/L	0.015	3/13/17 7:33	3/14/17 17:41	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17B406-06**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-361-BF	2/25/17	9:20	twb		2/27/17 8:48	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.68 mg/L	1.3	3/13/17 7:33	3/14/17 17:44	dtm	EPA 200.8 Rev. 5.4
Lead	0.0033 mg/L	0.015	3/13/17 7:33	3/14/17 17:44	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  
Senior Project Manager



the science of compliance

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### Birmingham Schools Fixture Inventory

Page 1 of 1

Building: Groves

Date Collected: 2/25/17  
Sampler's Initials: TWP

Trace ID: TI713406  
Logged by: JS  
Checked by: G/A

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	8:43	G-34-CF	C4- Triple(Right)Sink- Right	2943	Y	Br, Cu	
2	8:46	G-48-BF	Women's by D 8- Right	2956	Y	Br, Cu	
3	8:49	G-192-BF	Men's By E9- Right	3099	Y	Br, Cu	
4	8:11	G-252-CF	Planning & Science Tech	3150/51	Y	Br, Cu	
5	9:15	G-332-BF	Dressing Rm- Women's- Left	3194/95	Y	Br, Cu	
6	9:20	G-361-BF	Admin. Men's South-Right	3217/18	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  
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: 2/25/17 Time: 8:48



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**SAMPLE LOG IN CHECKLIST**

Trace ID #: TMB406 Date: 8/27/17 Package Description: Cooler Temperature: 16.7  
 Client Name: Birmingham Schools Time: 8:48 Logged in by: JS

**Cooler Receipt**

Cooler/samples delivered by: Trace courier  Hand delivered  Commercial courier  UPS  FED EX  US Mail  Name of delivery person: Tim Brewer

Tracking Number:  Not Applicable Tracking #: \_\_\_\_\_

COC Seals present and intact on cooler? No  Yes   Not Applicable

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:

**Cooler Temperature**  
 Correction Factors: •Digital Stick Thermometer CF = -1.0°C  
 •Thermocouple CF = -1.0°C

Temperature Blank: None °C (Digital Stick Thermometer)  
 Range of 3 samples: 12.6-12.7 °C (Thermocouple)  
 Melt Water: None °C (Use Digital Stick Thermometer)

Ice still present upon receipt (circle one):  
 Yes  No  N/A

**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 checked="" 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:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**\*EMD pH Test Strips Used:**  
 pH 0-2.5 Lot: HC563733  pH 11.0-13.0 Lot: HC547328  
 Other: \_\_\_\_\_  
 Lot: HC563733 verified 6/21/16 AY  
 Lot: HC547328 verified 6/30/16 AY