



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	0.025 mg/L	0.015	3/13/17 7:33	3/14/17 17:33	dtm	EPA 200.8 Rev. 5.4

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	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
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	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
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	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
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

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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: 2/27/17 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: Tom 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:

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

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)

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