

State of Michigan Laboratory ID: 8001

August 29, 2018

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

PROJECT: Groves

TRACE ID: T18H467-01

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-57-CF	8/16/18 6:40	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.37 mg/L	1.3	8/27/18 12:39	8/28/18 10:34	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 10:34	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-02

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-74-CF	8/16/18 6:41	twb	8/20/18 9:04

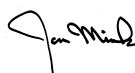
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.52 mg/L	1.3	8/27/18 12:39	8/28/18 10:39	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 10:39	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-03

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-131-CF	8/16/18 6:42	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.23 mg/L	1.3	8/27/18 12:39	8/28/18 10:40	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 10:40	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.



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 Senior Project Manager

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TRACE ID: T18H467-04

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-229-KF	8/16/18 6:43	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.27 mg/L	1.3	8/27/18 12:39	8/28/18 10:43	jbb	EPA 200.8 Rev. 5.4
Lead	0.023 mg/L	0.015	8/27/18 12:39	8/28/18 10:43	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-05

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-248-CF	8/16/18 6:44	twb	8/20/18 9:04

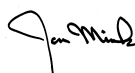
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.33 mg/L	1.3	8/27/18 12:39	8/28/18 10:45	jbb	EPA 200.8 Rev. 5.4
Lead	0.0019 mg/L	0.015	8/27/18 12:39	8/28/18 10:45	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-06

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-252-CF	8/16/18 6:45	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.89 mg/L	1.3	8/27/18 12:39	8/28/18 10:46	jbb	EPA 200.8 Rev. 5.4
Lead	0.0095 mg/L	0.015	8/27/18 12:39	8/28/18 10:46	jbb	EPA 200.8 Rev. 5.4

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TRACE ID: T18H467-07

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-318-CF	8/16/18 6:46	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.49 mg/L	1.3	8/27/18 12:39	8/28/18 10:48	jbb	EPA 200.8 Rev. 5.4
Lead	0.0081 mg/L	0.015	8/27/18 12:39	8/28/18 10:48	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-08

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-335-DF	8/16/18 6:47	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.55 mg/L	1.3	8/27/18 12:39	8/28/18 10:49	jbb	EPA 200.8 Rev. 5.4
Lead	0.63 mg/L	0.015	8/27/18 12:39	8/28/18 12:34	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H467-09

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
G-387-DF	8/16/18 6:48	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	8/27/18 12:39	8/28/18 10:51	jbb	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/27/18 12:39	8/28/18 10:51	jbb	EPA 200.8 Rev. 5.4

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Jon Mink
 Senior Project Manager

Birmingham Schools Fixture Inventory

Page 1 of 1

Building: Groves

Date Collected: 8-16-18
 Sampler's Initials: TWB

Trace ID: TRH467
 Logged by: JS
 Checked by: [Signature]

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	6:40	G-57-CF	E1 Teacher - CHICAGO				
2	6:41	G-74-CF	E3 Teacher - CHICAGO				
3	6:42	G-131-CF	E6 Teacher - CHICAGO				
4	6:43	G-229-KF	Kitchen Steam Kettle		3128	N	Br, Cu
5	6:44	G-248-CF	A4- CHICAGO				
6	6:45	G-252-CF	A6-Planning & Science Tech		3150/51	Y	Br, Cu
7	6:46	G-318-CF	B10		3182	Y	Br, Cu
8	6:47	G-335-DF	Auditorium Lobby		3197	N	Unknown
9	6:48	G-387-DF	Stagecraft - new room				

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: 8/20/18 Time: 9:04

SAMPLE LOG IN CHECKLIST

Trace ID #: TR8H467 Date: 8/20/18 Package Description: Cobra Temperature: 21.0
 Client Name: Birmingham Time: 9:04 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier Name of delivery person: Tim Brewer
 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

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input checked="" type="checkbox"/></p> <p>Ice still present upon receipt (circle one): Yes No <u>N/A</u></p>	<p>Cooler Temperature</p> <p>Correction Factors: •Digital Stick Thermometer CF = -0.6°C •IR Thermometer CF = -0.8°C</p> <p>Representative Sample Temperature: <u>20.3</u> °C (check one below) <input type="checkbox"/> Temp Blank (Stick Thermometer) <input checked="" type="checkbox"/> Client Sample (IR Thermometer)</p> <p>Melt Water: <u>none</u> °C (Use Digital Stick Thermometer)</p>
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General			Comments	
	Yes	No		NA
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:

***EMD pH Test Strips Used:**
 pH 0-2.5 Lot: HC731452 pH 11.0-13.0 Lot: HC600691
 Other: _____