



Trace Analytical Laboratories, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 Phone: 231.773.5998 Fax: 888.979.4467
 www.trace-labs.com

State of Michigan Laboratory ID: 8001

May 22, 2017

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

PROJECT: Pierce

TRACE ID: T17E287-01

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-05-KF	5/13/17 11:06	twb	5/15/17 9:09			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.48 mg/L	1.3	5/17/17 13:18	5/19/17 14:28	dtm	EPA 200.8 Rev. 5.4
Lead	0.016 mg/L	0.015	5/17/17 13:18	5/19/17 14:28	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E287-02

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-06-KF	5/13/17 11:07	twb	5/15/17 9:09			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.47 mg/L	1.3	5/17/17 13:19	5/19/17 14:41	dtm	EPA 200.8 Rev. 5.4
Lead	0.015 mg/L	0.015	5/17/17 13:19	5/19/17 14:41	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E287-03

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-56-BF	5/13/17 11:14	twb	5/15/17 9:09			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.30 mg/L	1.3	5/17/17 13:19	5/19/17 14:46	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:19	5/19/17 14:46	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



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PROJECT: Pierce

TRACE ID: T17E287-04

Sample Point Description	Collected	Collected By	Received at Laboratory
P-88-DF	5/13/17 11:05	twb	5/15/17 9:09

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.41 mg/L	1.3	5/17/17 13:19	5/19/17 14:48	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:19	5/19/17 14:48	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E287-05

Sample Point Description	Collected	Collected By	Received at Laboratory
P-93-CF	5/13/17 11:12	twb	5/15/17 9:09

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.20 mg/L	1.3	5/17/17 13:19	5/19/17 14:51	dtm	EPA 200.8 Rev. 5.4
Lead	0.0017 mg/L	0.015	5/17/17 13:19	5/19/17 14:51	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



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Birmingham Schools Fixture Inventory

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Building: Pierce

Date Collected: 5/13/17
 Sampler's Initials: TMB

Trace ID: T17E287
 Logged by: GT
 Checked by: GT

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	11:06	P-05-KF	Kitchen Triple Sink-Left	3472/73	Y	Br, Cu	
2	11:07	P-06-KF	Kitchen Triple Sink-Middle	3472/73	Y	Br, Cu	
3	11:14	P-56-BF	Boys by 205-Left	3514	Y	Br, Cu	
4	11:08	P-88-DF	Playground	3539	N	Unknown	
5	11:12	P-93-CF	Rm 103	3933/34	Y	Br, Cu	
6		P-95-CF	Rm 200	3935	Y	Br, Cu	

Abbreviations: CF= Classroom Faucet, BF= Bathroom Faucet, HS= Handsink, EW= Eyewash, B= Classroom Bubbler
 Bottle= Bottle Filler, DF= Drinking Fountain
 Connecting Plumbing: Br=Brass, Cu= Copper, G= Galvanized, P=Plastic

Released by: TMB

Received by: [Signature]

Date: 5/16/17 Time: 9:00

SAMPLE LOG IN CHECKLIST

Trace ID #: 17E287 Date: 5-15-17 Package Description: Cooler Temperature: 19.3
 Client Name: Birmingham Time: 4:09 Logged in by: GLJ

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier UPS FED EX US Mail

Name of delivery person: _____

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 = -0.6°C
 •IR Thermometer CF = -0.4°C

Temperature Blank: N/A °C (Digital Stick Thermometer)
 Range of 3 samples: 19.1-19.2 °C (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 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 type="checkbox"/>	<input type="checkbox"/>	

Notes: _____

*EMD pH Test Strips Used:
 pH 0-2.5 Lot: HC663733
 pH 11.0-13.0 Lot: HC647326
 Other: _____
 Lot: HC663733 verified 6/21/16 AY
 Lot: HC647326 verified 04/03/17 JB