



August 2, 2016

Debra Spring Matrix Head Start 2051 Rosa Parks Boulevard Detroit, Michigan 48216

SUBMITTED VIA EMAIL TO: dspring@matrix.org

SUBJECT: Drinking Water Screening Report

Young Faith

18687 Stoepel Street Detroit, Michigan 48221

Dear Ms. Spring:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to TriMatrix Laboratories, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead analysis.

SCOPE OF WORK

At the request of the Matrix Head Start (Matrix), ATC collected drinking water samples as a general screening for lead at the subject school. Matrix in coordination with the City of Detroit Health Department determined that the screening would consist of collection of water samples from three (3) high priority water outlets (drinking fountains, kitchen/food preparation area faucets, etc.), regularly used by students and staff for drinking, as designated by Matrix personnel. Two (2) samples were collected at each outlet: a first draw (Primary) sample; and a Flush sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight hours. The Flush samples were collected after the water was allowed to run for a minimum of thirty (30) seconds at each of the sample locations.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a coding system that identified: the type of drinking outlet sampled, Drinking Water Fountain (DWF), Drinking Water Cooler (DWC), Kitchen Faucet (KF) etc.; and a (P) for primary samples and a (F) for flush samples.





The samples were transported under chain of custody to TriMatrix Laboratories, located at 5560 Corporate Exchange Court SE, Grand Rapids Michigan for MDEQ drinking water certified lead analysis, using analytical method EPA 200.8 rev 5.4.

As per the EPA's 3T's for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance (October 2006) analysis of the flush sample(s) was only performed if analysis of the first draw (Primary) sample(s) indicated lead and/or copper concentrations greater than the EPA established Maximum Contaminate Level (MCL).

FINDINGS

Analytical results indicate that none of the samples analyzed were above the EPA recommended limits of 0.015 milligrams per liter (mg/L) for lead. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment A.

Sample Number	Total Lead (Drinking Water)	MCL
1-P-F (Bathroom 1 st Floor)	<0.0010 mg/L	0.015 mg/L
1-F-F (Bathroom 1 st Floor)	NA	0.015 mg/L
2-P-F (Kitchen)	<0.0010 mg/L	0.015 mg/L
2-F-F (Kitchen)	NA	0.015 mg/L

Key: NA - Not Analyzed

mg/L- milligrams per liter /parts per million (ppm)

LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead only, to assess lead concentrations (mg/L) at drinking water outlets in the school designated as high use by Matrix, and may not be representative of all drinking water outlets within the school. If lead concentrations are identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumping system, fixtures affected, and testing should be completed to assess the source of the elevated levels of lead, as well as, any other response actions deemed necessary by Matrix.



46555 Humboldt Drive Novi, Michigan 48377 Telephone 248-669-5140 www.atcgroupservices.com

The drinking water screening proposed and conducted by ATC was devised in cooperation with Matrix, City of Detroit Health Department and utilizing the EPA's 3Ts for Reducing Lead in Drinking Water in Schools and may not meet all of the recommendations provided by the MDEQ "Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies" Version 2.0 - April 13, 2016. Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

ATC Group Services, LLC

Marta & Samble

Martin Gamble

Senior Project Manager

Robert C. Smith

Building Science Department Manager

Robert C. Luiz

APPENDIX A LABORATORY ANALYTICAL REPORT



June 17, 2016

ATC Group Services Attn: Mr. Robert Smith 46555 Humboldt, Suite 100 Novi, MI 48377

Project: School Drinking Water Testing

Dear Mr. Robert Smith,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1606096	06/03/2016	Young Faith Daycare

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ANAB DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kentucky DEP (AL123065/#0021); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/53116); North Carolina DNRE (#659); Virginia DCLS (#460153/7952); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-14-00305).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Gary L. Wood **Project Chemist**



PROJECT TECHNICAL NARRATIVE(s)

No Project Narrative is associated with this report.



STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program. No Qualification is required.



ANALYTICAL REPORT

Client: ATC Group Services Work Order: 1606096

Project: School Drinking Water Testing Description: Young Faith Daycare Client Sample ID: **1-P-F Bathroom (1st Fl)** Sampled: 06/01/16 06:01

Lab Sample ID: **1606096-01** Sampled By: ATC

Matrix: Drinking Water Received: 06/03/16 16:05

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	Ву	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 15:16	MSB	1606053



ANALYTICAL REPORT

1606096 Client: **ATC Group Services** Work Order:

School Drinking Water Testing Project: Description: Young Faith Daycare 06/01/16 06:08 Client Sample ID: 2-P-F Kitchen Sampled:

Lab Sample ID: 1606096-03 Sampled By: ATC

Matrix: Received: 06/03/16 16:05 **Drinking Water**

Metals in Drinking Water by EPA 200 Series Methods

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	Ву	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	06/15/16 15:17	MSB	1606053



QUALITY CONTROL REPORT

Metals in Drinking Water by EPA 200 Series Methods

	Sample	Spike			Spike	Control		RPD	
QC Type	Conc.	Qty.	Result	Unit	% Rec.	Limits	RPD	Limits	RL

Analyte: Lead/USEPA-200.8 Rev. 5.4

QC Batch: 1606053 (Metals Direct Analysis)					Analyzed: 06/15/2016	By: MSB
Method Blank		<0.0010	mg/L			0.0010
Laboratory Control Sample	0.0400	0.0403	mg/L	101	85-115	0.0010



PRETREATMENT SUMMARY PAGE

Client: ATC Group Services

Project: School Drinking Water Testing

				Date & Time	
Pretreatment	Lab Sample ID	Batch	Ву	Prepared	
USEPA 600/R-94/173	1606096-01	1606053	ARB	06/13/16 08:53	
	1606096-03	1606053	ARB	06/13/16 08:53	

>	Company	Sampler's Signature								DD C	0/ 0	2	0 0	Schedule Matrix Sa Code Nu	らんららら	Work Order No.	Project Chemist Jim McFadden	Receipt Lag No. 38	VOA Rack/Tray	Cart 2	For Lab Use Only	\$ ₹ ₹
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X6.316/105	(Data) Time		Sampls											Total Sample Comments	н	G MeOH	E NaOH pH>12 F ZnaonaoH pH>9	C H ₂ SO ₄ pH<2 D 1+1 HCl pH<2	A NONE pH~7 (B) HNO ₃ pH<2	♦ PRESERVATIVES	Pg.) of /	151019155

ORIGINAL - LABORATORY

COPY - SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

A TOIL ANTOL	Client ATO	Work C	1606096
TRIMATRI	E S Receipt Record Page/Line # 2 - 2	Project Chemist Sample	
Recorded by (initials/date)	Cooler Qty Receiv	ed . R Gun (#202)	See Additional Gooler
WC 6.3.16	Box Other 2	Thermometer Used Digital Thermome	ster (#54) Information Form
	Coolers O Time	Cooler # Time	Cooler # , Time
m 2365 1655	1m3515 1100		0 14 0 0 0
Custody Seals:	Custody Seals:	Custody Seals None	Custody Seals: None
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Present / Not Intact	Present / Not Intact	Present / Not Intact	Present / Not Intact
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Sample 3: 239 - 239	Sample 3 727 - 122	Sample 3:	Sample 3:
3 Sample Average °C: 23.8	3 Sample Average °C: 22.2	3 Sample Average *C:	3 Sample Average °C:
Cooler ID on COC?	C	C 0 -1 - 10 0000	Cooler ID on COC?
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TRIMATRIX SAMPLE PRESERVATION VERIFICATION FORM

ent A	TC.			No. of the	Work Order # 160	6096		
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Container Type	5 / 23	4	13	6	15			- dame
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe	WELB CLASS X		
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	HNO ₃	HNO ₃			
Expected pH	>12	<2	<2	<2/	<2			
COC Line #1		455	HERM HERM	1/	2 16 6	His later	Aqueous Samp	
COC Line #2	ar come		THE REAL PROPERTY.	1/1	To a contract of		each sample ar type, check the	
COC Line #3	Esh-Pir		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			acceptable. If p	
000 11 41		KIRKL		1/		100	acceptable for a	
COC Line #4				1	A 1		container, recor	d pH in box
COC Line #5			The state of the s			5 - A E W 14	and note on Sa	Control of the Contro
COC Line #6	AND AND	F 32 4	No. Yell Birth	THE HOLE			Receiving Chec Sample Receiving	
COC Line #7							Conformance F	
200707						100/2018	approved by Pri	
COC Line #8			Kill Della		100		add acid or bas	
COC Line #9	334			THE RESERVE			sample to achie	
ONO CHIRT WO						2000 10	pH. Add up to,	
-201-0-2-3-0V/2	Silensia		1779103 100	THE PARTY OF THE PARTY.				
COC Line #10							exceed 2x the v added at contain table below for used). Add oral sample contains information requ	ner prep (se initial volum nge pH tag er and recor
COC Line #10			Adjusted by:	DO NOT AD	MILET ON EAR THEESE	CONTAINED TYPES	added at contai table below for used). Add ora sample containe information requ Record adjusted form. Do not ac	ner prep (se initial volume nge pH tag t er and recor uested. d pH on this djust pH for
COC Line #10 omments			Adjusted by:Date:	DO NOT AD	DJUST pH FOR THESE	CONTAINER TYPES	added at contai table below for used). Add ora sample containe information requ Record adjusted	ner prep (se initial volume nge pH tag t er and recon uested. d pH on this djust pH for
COC Line #10 omments OC ID #	5/23	4	Adjusted by:	DO NOT AD	DJUST pH FOR THESE	CONTAINER TYPES	added at contai table below for used). Add ora sample containe information requ Record adjusted form. Do not ac	ner prep (se initial volume nge pH tag t er and recon uested. d pH on this djust pH for
COC Line #10 comments container Type Tag Color	Lt. Blue	Blue	Date:13 Brown	6 Red	15 Red Stripe	CONTAINER TYPES	added at contai table below for used). Add ora sample contains information requ Record adjusted form. Do not ac container types	ner prep (se initial volume nge pH tag t er and recon uested. d pH on this djust pH for 6 and 15.
COC Line #10 DOMMENTS OC ID # Container Type Tag Color Preservative	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	CONTAINER TYPES	added at contai table below for used). Add ora sample containe information requ Record adjusted form. Do not ac	ner prep (se initial volume nge pH tag ter and reconuested. If pH on this digust pH for 6 and 15. Original Vol. Preservative
COC Line #10 mments C ID # Container Type Tag Color Preservative Expected pH	Lt. Blue	Blue	Date:13 Brown	6 Red	15 Red Stripe	CONTAINER TYPES	added at contai table below for used). Add ora sample contains information requ Record adjusted form. Do not ac container types	ner prep (se initial volume nge pH tag ter and reconsested. If the period of the perio
COC Line #10 mments COC ID # Container Type Tag Color Preservative Expected pH COC Line #1	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at contai table below for used). Add ora sample contains information requ Record adjusted form. Do not ac container types	ner prep (se initial volume nge pH tag ter and reconuested. If pH on this digust pH for 6 and 15. Original Vol. Preservative
COC Line #10 comments Container Type Tag Color Preservative Expected pH	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	CONTAINER TYPES	added at contai table below for used). Add ora sample contains information requ Record adjusted form. Do not ac container types	ner prep (se initial volume nge pH tag ter and reconsested. If the period of the perio
COC Line #10 Container Type Tag Color Preservative Expected pH COC Line #1	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at contained table below for used). Add or a sample contained information requirements and adjusted form. Do not accontainer types Container Size (mL) Container Type 5	ner prep (se initial volume nge pH tag ter and reconsested. If pH on this distribution of and 15. Original Vol. Preservative (mL)
COC Line #10 comments OC ID # Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	CONTAINER TYPES	added at containable below for used). Add oral sample container information requirements form. Do not accontainer types Container Size (mL) Container Type 5	ner prep (se initial volume nge pH tag ter and reconuested. If pH on this dijust pH for 6 and 15. Original Vol. Preservative (mL) NaOH
COC Line #10 comments Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample contained information requirements form. Do not accontainer types Container Size (mL) Container Type 5 500 1000	ner prep (se initial volume nge pH tag ter and reconsested. If pH on this distribution of the preservative (mL) NaOH 2.5 5.0
COC Line #10 container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample contained information requirements and additionable form. Do not accontainer types Container Size (mL) Container Type 5 500 1000 Container Type 4	ner prep (se initial volume nge pH tag ter and reconsested. In pH on this digital pH for 6 and 15. Original Vol. Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄
COC Line #10 container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample container information requirements form. Do not accontainer types Container Size (mL) Container Type 5 500 1000 Container Type 4	ner prep (se initial volume nge pH tag ter and reconuested. If pH on this dijust pH for 6 and 15. Original Vol. Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5
COC Line #10 container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample contained information requirements and adjusted form. Do not accontainer types. Container Size (mL) Container Type 5 500 1000 Container Type 4 125 250	ner prep (se initial volume nge pH tag ter and reconsuested. d pH on this dijust pH for 6 and 15. Original Vol. Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5
COC Line #10 comments container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5 COC Line #7	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample container information requirements form. Do not accontainer types. Container Size (mL) Container Type 5 500 1000 Container Type 4 125 250 500 1000	ner prep (se initial volume nge pH tag ter and recordusted. If pH on this dijust pH for 6 and 15. Original Vol. Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 1.0 2.0 4.0
COC Line #10 comments Container Type Tag Color Preservative Expected pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5 COC Line #7 COC Line #8	Lt. Blue NaOH	Blue H ₂ SO ₄	13 Brown H ₂ SO ₄	6 Red HNO ₃	15 Red Stripe HNO ₃	E CONTAINER TYPES	added at containable below for used). Add oral sample contained information required form. Do not accontainer types. Container Size (mL) Container Type 5 500 1000 Container Type 4 125 250 500	ner prep (seinitial volume nge pH tag the rand record lested. I pH on this dijust pH for 6 and 15. Original Vol. Preservative (mL) NaOH 2.5 5.0 H ₂ SO ₄ 0.5 1.0 2.0