

July 15, 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:

<b>Work Order</b>	<b>Received</b>	<b>Description</b>
1607022	06/30/2016	Creative Learning - 20111 Greenfield

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**  
Project: School Drinking Water Testing  
Client Sample ID: **1-DWC-P-CL**  
Lab Sample ID: **1607022-01**  
Matrix: Drinking Water

Work Order: **1607022**  
Description: Creative Learning - 20111 Greenfield  
Sampled: 06/29/16 07:07  
Sampled By: Andrew Ketchem  
Received: 06/30/16 18:30

**Metals in Drinking Water by EPA 200 Series Methods**

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	<0.0010	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	07/14/16 08:41	DSC	1606894

**ANALYTICAL REPORT**

Client: **ATC Group Services**  
Project: School Drinking Water Testing  
Client Sample ID: **2-BSG-P-CL**  
Lab Sample ID: **1607022-03**  
Matrix: Drinking Water

Work Order: **1607022**  
Description: Creative Learning - 20111 Greenfield  
Sampled: 06/29/16 07:10  
Sampled By: Andrew Ketchem  
Received: 06/30/16 18:30

**Metals in Drinking Water by EPA 200 Series Methods**

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	0.039	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	07/11/16 12:53	DSC	1606959

**ANALYTICAL REPORT**

Client: **ATC Group Services**  
Project: School Drinking Water Testing  
Client Sample ID: **3-BSB-P-CL**  
Lab Sample ID: **1607022-05**  
Matrix: Drinking Water

Work Order: **1607022**  
Description: Creative Learning - 20111 Greenfield  
Sampled: 06/29/16 07:12  
Sampled By: Andrew Ketchem  
Received: 06/30/16 18:30

**Metals in Drinking Water by EPA 200 Series Methods**

Analyte	Analytical Result	RL	Action Limit	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Lead	0.039	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	07/11/16 12:56	DSC	1606959

## QUALITY CONTROL REPORT

### Metals in Drinking Water by EPA 200 Series Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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**Analyte: Lead/USEPA-200.8 Rev. 5.4**

QC Batch: 1606959 (200.2 Digestion)

Analyzed: 07/11/2016 By: DSC

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0500	<b>0.0502</b>	mg/L	100	85-115			0.0010

QC Batch: 1606894 (Metals Direct Analysis)

Analyzed: 07/14/2016 By: DSC

Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	<b>0.0383</b>	mg/L	96	85-115			0.0010

**PRETREATMENT SUMMARY PAGE**

Client: **ATC Group Services**  
Project: **School Drinking Water Testing**

<b>Pretreatment</b>	<b>Lab Sample ID</b>	<b>Batch</b>	<b>By</b>	<b>Date &amp; Time Prepared</b>
USEPA-200.2 Metals Digestion	1607022-03	1606959	JCW	07/07/16 12:18
	1607022-05	1606959	JCW	07/07/16 12:18
USEPA 600/R-94/173	1607022-01	1606894	JBA	07/05/16 13:36







# SAMPLE RECEIVING / LOG-IN CHECKLIST



Client: <u>QTC-CREATIVE LEARNING</u>	Work Order #: <u>1607022</u>
Receipt Record Page/Line #: <u>8-33</u>	Project Chemist: _____ Sample #: _____

Recorded by (initials/date): <u>DN 6/30/16</u>	<input type="checkbox"/> Cooler <input checked="" type="checkbox"/> Box <input type="checkbox"/> Other: <u>399</u>	Qty Received: <u>1</u>	<input checked="" type="checkbox"/> IR Gun (#202) <input type="checkbox"/> Digital Thermometer (#54) <input type="checkbox"/> Other (# _____)
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Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time
<u>399</u>	<u>2232</u>						
Custody Seals: <input checked="" type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact		Custody Seals: <input type="checkbox"/> None <input type="checkbox"/> Present / Intact <input type="checkbox"/> Present / Not Intact	
Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input checked="" type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None		Coolant Type: <input type="checkbox"/> Loose Ice <input type="checkbox"/> Bagged Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None	
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom	
Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No		Temp Blank Present: <input type="checkbox"/> Yes <input type="checkbox"/> No	
If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative		If Present, Temperature Blank Location is: <input type="checkbox"/> Representative <input type="checkbox"/> Not Representative	
	Observed °C	Correction Factor °C	Actual °C		Observed °C	Correction Factor °C	Actual °C
Temp Blank:				Temp Blank:			
Sample 1:	<u>24.10</u>		<u>24.1</u>	Sample 1:			
Sample 2:	<u>24.10</u>		<u>24.1</u>	Sample 2:			
Sample 3:	<u>24.20</u>		<u>24.2</u>	Sample 3:			
3 Sample Average °C: <u>24.1</u>				3 Sample Average °C: _____			
<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?				<input type="checkbox"/> Cooler ID on COC? <input type="checkbox"/> VOC Trip Blank received?			

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

<b>Paperwork Received</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <input checked="" type="checkbox"/> Chain of Custody record(s)? If No, Initiated By _____ <input checked="" type="checkbox"/> Received for Lab Signed/Date/Time? <input type="checkbox"/> Shipping document? <input type="checkbox"/> Other: _____ <b>COC Information</b> <input checked="" type="checkbox"/> TriMatrix COC <input type="checkbox"/> Other: _____ COC ID Numbers: <u>160642694</u>	<b>Check Sample Preservation</b> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Temperature Blank OR average sample temperature, ≥6° C? <input checked="" type="checkbox"/> If either is ≥6° C, was thermal preservation required? If "Yes", Project Chemist Approval Initials: _____ If "Yes" Completed Non Con Cooler - Cont Inventory Form? <input checked="" type="checkbox"/> Completed Sample Preservation Verification Form? <input checked="" type="checkbox"/> Samples chemically preserved correctly? If "No", added orange tag? <input checked="" type="checkbox"/> Received pre-preserved VOC soils? <input type="checkbox"/> MeOH <input type="checkbox"/> Na <sub>2</sub> SO <sub>4</sub>			
<b>Check COC for Accuracy</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> Analysis Requested? <input checked="" type="checkbox"/> Sample ID matches COC? <input checked="" type="checkbox"/> Sample Date and Time matches COC? <input checked="" type="checkbox"/> Container type completed on COC? <input checked="" type="checkbox"/> All container types indicated are received?	<b>Check for Short Hold-Time Prep/Analyses</b> <input type="checkbox"/> Bacteriological <input type="checkbox"/> Air Bags <input type="checkbox"/> EnCores / Methanol Pre-Preserved <input type="checkbox"/> Formaldehyde/Aldehyde <input type="checkbox"/> Green-tagged containers <input type="checkbox"/> Yellow/White-tagged 1 L ambers (SV Prep-Lab)			
<b>Sample Condition Summary</b> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <input checked="" type="checkbox"/> Broken containers/lids? <input checked="" type="checkbox"/> Missing or incomplete labels? <input checked="" type="checkbox"/> Illegible information on labels? <input checked="" type="checkbox"/> Low volume received? <input checked="" type="checkbox"/> Inappropriate or non-TriMatrix containers received? <input type="checkbox"/> VOC vials / TOX containers have headspace? <input type="checkbox"/> Extra sample locations / containers not listed on COC?	<b>Notes</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>AFTER HOURS ONLY:</b>                  COPIES OF COC TO LAB AREA(S)  <input checked="" type="checkbox"/> NONE RECEIVED  <input type="checkbox"/> RECEIVED, COCs TO LAB(S)             </div>			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;"> <input type="checkbox"/> Trip Blank received                  Cooler Received (Date/Time): <u>DN 6/30/16</u> </td> <td style="width: 33%;"> <input type="checkbox"/> Trip Blank not listed on COC                  Paperwork Delivered (Date/Time): <u>6/30/16</u> </td> <td style="width: 33%;">                 ≤1 Hour Goal Met?                  Yes / No             </td> </tr> </table>		<input type="checkbox"/> Trip Blank received Cooler Received (Date/Time): <u>DN 6/30/16</u>	<input type="checkbox"/> Trip Blank not listed on COC Paperwork Delivered (Date/Time): <u>6/30/16</u>	≤1 Hour Goal Met? Yes / No
<input type="checkbox"/> Trip Blank received Cooler Received (Date/Time): <u>DN 6/30/16</u>	<input type="checkbox"/> Trip Blank not listed on COC Paperwork Delivered (Date/Time): <u>6/30/16</u>	≤1 Hour Goal Met? Yes / No		



Client <u>QTC - CREATIVE LEARNING</u>	Work Order # <u>1007022</u>
Receipt Log # <u>8.33</u>	Project Chemist <u>JDM</u>
Completed By (initials/date) <u>JDN 6/30/16</u>	

COC ID # <u>160642694</u>				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15						
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe						
Preservative	NaOH	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HNO <sub>3</sub>						
Expected pH	>12	<2	<2	<2	<2						
COC Line #1				✓							
COC Line #2				✓							
COC Line #3				✓							
COC Line #4				✓							
COC Line #5				✓							
COC Line #6				✓							
COC Line #7											
COC Line #8											
COC Line #9											
COC Line #10											

pH Strip Reagent #
<input checked="" type="checkbox"/> <b>6040263</b>
<input type="checkbox"/>

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 6 and 15.

COC ID # _____				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	6	15						
Tag Color	Lt. Blue	Blue	Brown	Red	Red Stripe						
Preservative	NaOH	H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HNO <sub>3</sub>						
Expected pH	>12	<2	<2	<2	<2						
COC Line #1											
COC Line #2											
COC Line #3											
COC Line #4											
COC Line #5											
COC Line #6											
COC Line #7											
COC Line #8											
COC Line #9											
COC Line #10											

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H <sub>2</sub> SO <sub>4</sub>
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H <sub>2</sub> SO <sub>4</sub>
500	2.5

Comments
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