April 07, 2017

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 Pace Analytical:

Work Order	Received	Description
1703417	03/24/2017	Wayne

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); Georgia EPD (#026-999-161/1023062); Illinois DEP (#200026/003329); Kentucky DEP (AL123065/#0021); Michigan DPH (#0034); Minnesota DPH (#026-999-161/1023062); 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
Client Services Manager

5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.pacelabs.com

PROJECT TECHNICAL NARRATIVE(s)

No Project Narrative is associated with this report.

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STATEMENT OF DATA QUALIFICATIONS

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

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ANALYTICAL REPORT

Client:	**ATC Group Services**	Work Order:	**1703417**
Project:	School Drinking Water Testing	Description:	Wayne
Client Sample ID:	**DWF-P-Wayne Hall @ 206 (R)**	Sampled:	03/24/17 08:02
Lab Sample ID:	**1703417-01**	Sampled By:	ATC
Matrix:	Drinking Water	Received:	03/24/17 17:15

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
Copper	**0.027**	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:21	KLV	1702813
Lead	**0.035**	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:21	KLV	1702813

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ANALYTICAL REPORT

Client:	**ATC Group Services**	Work Order:	**1703417**
Project:	School Drinking Water Testing	Description:	Wayne
Client Sample ID:	**DWF-F-Wayne Hall @ 206 (R)**	Sampled:	03/24/17 08:03
Lab Sample ID:	**1703417-02**	Sampled By:	ATC
Matrix:	Drinking Water	Received:	03/24/17 17:15

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
Copper	**0.010**	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:24	KLV	1702813
Lead	**0.0078**	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:24	KLV	1702813

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ANALYTICAL REPORT

Client:	**ATC Group Services**	Work Order:	**1703417**
Project:	School Drinking Water Testing	Description:	Wayne
Client Sample ID:	**DWF-P-Wayne Hall @ 206 (L)**	Sampled:	03/24/17 08:08
Lab Sample ID:	**1703417-03**	Sampled By:	ATC
Matrix:	Drinking Water	Received:	03/24/17 17:15

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
Copper	**0.18**	0.0050	1.3	mg/L	5	USEPA-200.8 Rev. 5.4	04/06/17 08:59	KLV	1702813
Lead	**0.029**	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:32	KLV	1702813

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ANALYTICAL REPORT

Client:	**ATC Group Services**	Work Order:	**1703417**
Project:	School Drinking Water Testing	Description:	Wayne
Client Sample ID:	**DWF-F-Wayne Hall @ 206 (L)**	Sampled:	03/24/17 08:09
Lab Sample ID:	**1703417-04**	Sampled By:	ATC
Matrix:	Drinking Water	Received:	03/24/17 17:15

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
Copper	**0.011**	0.0010	1.3	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:35	KLV	1702813
Lead	**0.0045**	0.0010	0.015	mg/L	1	USEPA-200.8 Rev. 5.4	04/05/17 12:35	KLV	1702813

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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
Analyte: Copper/USEPA-200.8 Rev. 5.4									
QC Batch: 1702813 (Metals Direct Analysis)						Analyzed: 04/05/2017		By: KLV	
Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	**0.0401**	mg/L	100	85-115			0.0010
Analyte: Lead/USEPA-200.8 Rev. 5.4									
QC Batch: 1702813 (Metals Direct Analysis)						Analyzed: 04/05/2017		By: KLV	
Method Blank			<0.0010	mg/L					0.0010
Laboratory Control Sample		0.0400	**0.0398**	mg/L	99	85-115			0.0010

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PRETREATMENT SUMMARY PAGE

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

Pretreatment	Lab Sample ID	Batch	By	Date & Time Prepared
USEPA 600/R-94/173	1703417-01	1702813	JBA	03/30/17 16:50
	1703417-02	1702813	JBA	03/30/17 16:50
	1703417-03	1702813	JBA	03/30/17 16:50
	1703417-04	1702813	JBA	03/30/17 16:50

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A — Required Client Information:

Company: ATC GROUP SERVICES
Address: 46555 HUMBOLDT DRIVE
SUITE 100
Email To: robert.smith@atcassociates.com
Phone: 248-469-5140
Fax: 248-469-5147
Requested Due Date/TAT:

Section B — Required Project Information:

Report To: ROBERT SMITH
Copy To:
Project Name:
Project Number:
Purchase Order No.:

Section C — Invoice Information:

Attention:
Company Name: ROBERT SMITH
Address: 46555 HUMBOLDT DRIVE
ATC GROUP SERVICES

Pace Quote:
Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
- [ ] NPDES
- [ ] GROUND WATER
- [x] DRINKING WATER
- [ ] UST
- [ ] RCRA
- [ ] OTHER

Site Location STATE: MI

Requested Analysis Filtered (Y/N)

Pace Project No./Lab I.D.

Matrix Codes (MATRIX / CODE)

Drinking Water	DW	Oil	OL
Water	WT	Wipe	WP
Waste Water	WW	Air	AR
Product	P	Tissue	TS
Soil/Solid	SL	Other	OT

Section D — Required Client Information

WAYNE

SAMPLE ID
(A-Z, 0-9 /, -)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	# OF CONTAINERS	HNO₃	Analysis Test Y/N	Pace Project No./Lab I.D.
1	DWF-P-WAYNE HALL @ 204 (R)	DW	G	3/24/17	8:02		X	X LEAD / X COPPER	#1703417 -.01
2	DWF-F-WAYNE HALL @ 204 (R)				8:03				-.02
3	DWF-P-WAYNE HALL @ 206 (L)				8:08				-.03
4	DWF-F-WAYNE HALL @ 206 (L)				8:09				-.04
5									
6									
7									
8									
9									
10									
11									
12									

Preservatives: Unpreserved, H₂SO₄, HNO₃, HCl, NaOH, Na₂S₂O₃, Methanol, Other

Residual Chlorine (Y/N)

(43-16)

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
KIMBERLY JOHNSON / Ky Johnson	3/24/17	10:16	Ky Johnson / Bogdan Pace	3/24/17	12:50
	3/24/17	10:16	Bogdan Pace	3/24/17	1713

SAMPLE CONDITIONS: Temp in °C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: KIMBERLY JOHNSON
SIGNATURE of SAMPLER: Kimberly Johnson
PRINT Name of SAMPLER: KIMBERLY JOHNSON
DATE Signed (MM/DD/YY): 3/24/17

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoice not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SAMPLE RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client: CJC
Receipt Record Page/Line #: 1/3-16

New / Add To
Project Chemist _____ Sample #s

Work Order #: 1703417

Recorded by (initials/date): 3N 3-24-17

Qty Received: 1

☑ Cooler
☐ Box
☐ Other

Thermometer Used:
☑ IR Gun (#202)
☐ Digital Thermometer (#54)
☐ Other (#_____)

☐ See Additional Cooler Information Form

Cooler # TH3777 Time 1853	Cooler # ___ Time ___	Cooler # ___ Time ___	Cooler # ___ Time ___
Custody Seals: ☑ None ☐ Present / Intact ☐ Present / Not Intact	**Custody Seals:** ☐ None ☐ Present / Intact ☐ Present / Not Intact	**Custody Seals:** ☐ None ☐ Present / Intact ☐ Present / Not Intact	**Custody Seals:** ☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☑ None	**Coolant Type:** ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	**Coolant Type:** ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	**Coolant Type:** ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ 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: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No
If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C		Observed °C	Correction Factor °C	Actual °C		Observed °C	Correction Factor °C	Actual °C		Observed °C	Correction Factor °C	Actual °C
Temp Blank				Temp Blank				Temp Blank				Temp Blank			
Sample 1	24.6	0	24.6	Sample 1				Sample 1				Sample 1			
Sample 2	24.1	0	24.1	Sample 2				Sample 2				Sample 2			
Sample 3	24.2	0	24.2	Sample 3				Sample 3				Sample 3			

3 Sample Average °C: 24.3	3 Sample Average °C:	3 Sample Average °C:	3 Sample Average °C:
☐ Cooler ID on COC? ☐ VOC Trip Blank received?	☐ Cooler ID on COC? ☐ VOC Trip Blank received?	☐ Cooler ID on COC? ☐ VOC Trip Blank received?	☐ Cooler ID on COC? ☐ VOC Trip Blank received?

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

---

Paperwork Received

Yes / No
☑ ☐ Chain of Custody record(s)? If No, Initiated By _____
☑ ☐ Received for Lab Signed/Date/Time?
☐ ☑ Shipping document?
☐ ☑ Other _____

COC Information

☑ Pace COC ☐ Other _____
COC ID Numbers: 3159571

Check COC for Accuracy

Yes / No
☑ ☐ Analysis Requested?
☑ ☐ Sample ID matches COC?
☑ ☐ Sample Date and Time matches COC?
☑ ☐ Container type completed on COC?
☑ ☐ All container types indicated are received?

Check Sample Preservation

N/A / Yes / No
☐ ☑ ☐ Temperature Blank OR average sample temperature, ≥6° C?
☐ ☑ ☑ If either is ≥6° C, was thermal preservation required?
☑ ☐ ☐ If "Yes", Project Chemist Approval Initials: _____
☑ ☐ ☐ If "Yes" Completed Non Con Cooler - Cont Inventory Form?
☑ ☐ ☐ Completed Sample Preservation Verification Form?
☐ ☑ ☐ Samples chemically preserved correctly?
☑ ☐ ☐ If "No", added orange tag?
☐ ☐ ☐ Received pre-preserved VOC soils?
          ☐ MeOH ☐ Na₂SO₄

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☐ Green-tagged containers
☐ Yellow/White-tagged 1 L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☑ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Sample Condition Summary

N/A / Yes / No
☐ ☐ ☑ Broken containers/lids?
☐ ☐ ☑ Missing or incomplete labels?
☐ ☐ ☑ Illegible information on labels?
☐ ☐ ☑ Low volume received?
☐ ☐ ☑ Inappropriate or non-Pace containers received?
☑ ☐ ☐ VOC vials / TOX containers have headspace?
☑ ☐ ☐ Extra sample locations / containers not listed on COC?

Notes

☐ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
3N 3-24-17	3-24-17	Yes / No

SAMPLE PRESERVATION VERIFICATION FORM

Pace Analytical®

page 1 of 1

Client	QJC			Work Order #	1703417
Receipt Log #	43-16	Completed By (initials/date)	SN 5-27-17	Project Chemist	

COC ID # 2159571

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_2SO_4	H_2SO_4		HNO_3	HNO_3		
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								

Comments

pH Strip Reagent # / Lot #

☑ 7021862 / HC693124

☐ Other _____

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_2SO_4	H_2SO_4		HNO_3	HNO_3		
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								

Comments

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H_2SO_4
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H_2SO_4
500	2.5

Receiving Log In Forms -- Sample_Preserve_Verification

version: 3.1